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DEFENSE COSTS AND DISARMAMENT

CHARLES DAVID MANRING

US. NAVAL POSTU 151 TE SCHOOL

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MONTEREY, CA 93943-6101









AN ABSTRACT

of

OF THE MILITARY AND SOCIAL COST COMPONENTS OF DEFENSE EXPENDITURES

by

Charles David Manring

Submitted to the

Faculty of the School of International Service

of The American University

in Partial Fulfillment of

the Requirements for the Degree

MASTER OF ARTS

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AN ABSTRACT

The U. 5. Defense budget is analyzed to determine its role in economic considerations of disarmament. The author argues that routine living expenses provided by the defense budget should not be considered military in disarmament deliberations, but comprise what he defines as "social overhead," which would be required of the economy armed or disarmed: food, clothing, housing, and other services detegorized as herical, Melfare, Civic, and Technical Bervices. The costs of these are isolated, totaled, and compared to similar services on the civilian market, to getermine how much strictly military expense is compensated for by savings on social overhead in the Defense Department. Data tabulated indicates that only half the Defense Budget--largely the costs of military hardware--would be obviated by disarmament; the remainder is devoted to social overhead, largely in the form of services.

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INTRODUCTION

In an era in which utter obliteration has become a real, if irrational alternative in the affairs of nations, international relations necessarily revolves around the constant awareness of nuclear danger. Increasing international preoccupation with the search for security in the nuclear age has lent new urgency and dimensions to the old pursuit of disarmament. Superficially simple, disarmament in practice is an extraordinarily complex problem at both the national and international level. Approaches range from a Better-Red-Shan-Dead lunatic fringe to the plodding, frustrating, seemingly endless, but at least statesmanlike deliberations at Geneva. In the open societies of the West, all interested parties may be heard. At stake is national security—indeed, survival. Little wonder that every conceivable ramification is exhaustively analyzed, deliberated, and argued.

Not the least of many complications inherent in the control of armaments are economic considerations. One reputable writer states it thus:

We are already alarmed by the problem of doing without the ten per cent or so of our national production that we now pour down the drain of military preparedness. But this expenditure can be regarded as our nonproductive contribution to the exigencies of the external world and the maintenance of an international order, such as it is, without which we could not survive. We now dup some \$50 billions' worth a year of weaponry and military

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organization into the maintenance of international order without expectation of financial return. Aconomically, this is a dead loss. 1

This is an opinion shared to varying degrees by many others. It is a lament of the concerned, the sincere, but the misinformed.

AN INVESTIGATION OF THE PARTY NAMED IN

I. SIGNIFICANCE OF THE DEFENSE BUDGET

III. THE REPORT OF RECORD

National security is expensive. The Department of Defense accounts for more than half of all the United States spends. Americans have grown accustomed to discussing defense in terms of billions of dollars, budget figures beyond personal comprehension. Concern has been voiced lest the United States spend itself into bankruptcy in the arms race. When it is announced that fifty-two billion dollars is to Le obligated to national defense in 1963, it is easy to assume that, however necessary that staggering sum may be, it is a slice of the national economy wastedinthe production, procurement, and e ployment of esoteric devices whose sold practical utility can be realized only in warfare, the very activity which the purchase of such goods and services is designed to prevent. Others have suggested that the United States cannot afford to disarm, that the economy is (or soon will be) irrevocably committed to military expenditures. Yet no detailed analysis of the defense budget is available to indicate accurately its contribution to the economic implications of disarmament. In arguments for and against disarmament proposals, and in discussion of possible implementation of

Walter Millis, A World Without War (New York: Washington Square Press, Inc., 1961), p. 96.

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disarmament schemes, economic considerations are too often ignored, for dismissed with broad and inaccurate generalizations. Quite commonly one hears that ten per cent of the gross national product of the United States is devoted to military expenditures, hence is "lost to the economy," or is "wasted," or agoes down the drain."

II. SCOPE AND PURPOSE OF THE STUDY

This is an analysis of the budget of the U. S. Department of and the contract of the definite second of the present of the Defense, undertaken in an attempt to determine one aspect of its effect After the second of the problem and resident the later the later than the later t on the national economy, and to nelp to determine the proper role of the second section with the second section and the second section is the second section of the second section section is the second section of the second section sect economic considerations in the problem of disarmament. No meaningful which the second work below to provide the first the second price can be attached to peace of mind, nor to national security. It is to the control of eliterate course of the control presents further up possible, however, to separate the economically negative aspects of the contract of frames which the contract of the tensor tensor than national security from those expenditures which serve a useful purpose in spite of their military origin-in other words, to determine what is "wasted," and what the economy would have to provide in any event, armed prior of the control by the prior product, and the could be could worked or disarmed-by analyzing how defense funds are allotted. For example, the cost of jet fuel expended by a fighter pilot on a practice energy intercept is a military expense, but the cost of his lunch is not, even though both are charged to the Department of Defense. A number of

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Professions of this sort of generalization, see Harrison Drown and James Real, "Community of Fear," and Walter Millis, "A World Without War," A World Without War (New York: Washington Square Press, Inc., 1961), pp. 42-43, and p. 64. For a balance, discussion of differences of opinion on the economic aspects of "Drastic changes in military magnitude," see Samuel P. Huntington, The Common Defense (New York and London: Columbia University Press, 1961), pp. 208-277.

THE RESERVE OF PERSON LA

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ment of Defense in the process of maintaining military power, at home and abroad, which have little to do with peace or war. Quite often, a tradition of service to the nation results in a considerable saving on these benefits.

Control of the Contro

Assumptions and Definitions

For purposes of defining the distinction between social and Married Man and April of the authors of ball to be upon the application military services purchased by the defense budget, it is convenient to In the common party of the constitute markets. assume hypothetically the positive assurance of permanent peace through-Name and Advanced to the Advan out the world, and consequent total disarmament. All Department of A SHEET OF CHILD PARTY AND REAL PROPERTY. Defense obligations which would thereby be obviated can then be defined as the cost of military power. All obligations presently fulfilled by the Department of Defense which would continue to be required under monthly bear at the Wayner being up the out a by a conditions of total disarmament can be defined as social overhead. In general, by this definition the cost of military power consists of the the contract representations of the contract and specialists. price of operational weapons systems, and the cost of social overhead or program to treating, and or rolls recent to barries." The of results from normal living expenses. Make the party of the party of

Limitations on the Scope of the Analysis

An analysis comprehensive enough to extract all the economic implications of the military activities of the United States is a formidable task--inused, perhaps an impossible one. The influence of the U.S. defense establishment is so subtly and inextricably interwoven into the fabric of the U.S. economy as to defy specific segregation.

This analysis is limited to that major portion of the gross national

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product which can be clearly identified as military: the budget of the Department of Defense.

In addition, it is recognized that the total disarmament and positive assurance of permanent peace posed hypothetically for purposes of definition above would result in additional economic problems worthy of serious consideration, but beyond the scope of this analysis. No effort is made here to reconcile the problems associated with having to absorb the employees of the defense establishment into the civilian economy. Neither is any consideration given to the associated complications of having to shift all or part of present Department of Defense expenditures from the public to the private sector of the economy.

III. DasCRIPTION OF THE BUDGET

The second second line

The financial obligations of the United States are budgeted by a number of different criteria. Analyses are prepared by agency, by function, by receipts and expenditures, by investments and operations, by programs and financing, and by other special criteria. None of these analyses provides a breakdown in terms of military power and social overhead as defined for purposes of the present analysis, except to the extent that the Federal Program by Agency isolates the expenses of the Department of Defense.

^{30.} S. Bureau of the Budget, The Budget of the United States Government, 1963 (Washington: Government Printing Office, 1962); for "Special Analyses" see Part 6, pp. 269-361. The official budget of the United States Government consists of three volumes: the one cited above, The Budget of the United States Government, 1963--Appendix, and The Budget of the United States Government, 1963--The District of

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Functional Categories

Within the Department of Defense, the Federal Program by Function lends itself most readily to analysis by military and social obligations. Even this breakdown, however, is complicated by two different set of functional categories: one the list of conventional functions by which the Department of Defense budget is customarily prepared, and the other a new set of functions expressed in terms of military missions which has been introduced by the current administration, and is generally associated with Assistant Secretary of Defense (Comptroller) Charles J. Hitch. The two sets of categories compare as follows:

CONVENTIONAL CATEGORIES	of orthographic to	MISSION CATEGORIES	
Military Personnel Operation & Maintenance Procurement Research, Development, Test, and Evaluation Military Construction Civil Defense Military Assistance	\$13.2 11.6 16.5 6.8 1.3 .7	Strategic Retaliatory Continental Air Defense General Purpose sealift and Airlift Reserve & Nat'l Guard Research & Development General Support Civil Defense Military Assistance	\$ 9.1

The new functional categories by military mission were devised in an attempt not only to improve Defense Department management and budgeting, but also to present Defense appropriations to the Congress more meaningfully in terms of the commodities the appropriations are intended to buy.

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Columbia. In addition, the Bureau of the Budget has prepared a pamphlet of abridged and condensed budget information entitled "The Budget in Brief, 1963.

Unudget of the U. 3. Government, 1963, p. 103.

⁵¹bid., p. 58. Total coes not equal total for conventional categories because of inclusion of 2.3 billion in prior authority.

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The new cate ories have been used extensively in the discussion and justification of the Defense budget before the Appropriations Committees of the Congress; but although they have elicited considerable Congressional enthu iasm, it is required by law that the budget be prepared in accordance with the conventional categories. For this reason, the conventional functions have been used as the basis of the present analysis, interpolating where conventent from information presented to the Congress in terms of the new functional categories.

The formate, terminologies, and rationales employed by the Company of the Laboratory different branches of the armed forces in presenting their individual the output the latest of the party of the pa portions of the Department of Defense budget wary. Items funded sepa-THE RESIDENCE OF THE PARTY AND rately by one service may be included as a subdivision of a major the private shapiles or by owner or conflict end of high category by the third. On some appropriations, the Marine Corps speals THE RESERVE OF STREET for itself; in others it is represented as part of the Mavy. In addition, each service has a number of projects which cut across categorical mining yoursely by take the first age a character of the lines to find funds under several headings. For example, a research DATE OF BATTERN STATE project may get its buildings from Military Construction, its equipment out of Procurement, pay its unifor ed employees out of military Personinl funds and its civilian employees out of Operation and Laintenance pure analysis of the completency markets on type funds, and fund its contracts under the Research, Development, Test, and and the color of the first field that they reported their first Evaluation appropriation. As a result, any functional analysis is not CONTRACTOR DESIGNATION AND ADMINISTRATION OF THE PARTY OF entirely uniform by branch of service.

Budget Terminology

The Federal Budget is compiled under two parallel headings: "New Obligational Authority" (NOA) and "Expenditures" (Exp.), which over the

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long run are roughly equivalent sums. New Obligational Authority is

Congressional authorization to incur obligations for the payment of

money. Expenditures are the actual payments. The Bureau of the Budget's

pamphlet The Budget in Brief describes budget procedures, and defines

budget terminology:

... Appropriations are the most common form of new obligational authority; they authorize the agencies not only to order goods and services but also to draw funds from the Treasury and make expenditures to pay for the goods and services when delivered.

The pamphlet explains the relationship between New Obligational Authority and expenditures as follows:

Not all of the obligational authority enacted for a fiscal year is spent in the same year. Appropriations to pay salaries or pensions are usually spent almost entirely in the year for which they are enacted. On the other hand, the bulk of appropriations to buy guided missiles or to construct an airfield are likely to be spent 2 or 3 or more years after enactment because of the time required to prepare designs, arrange contracts, complete production or construction, and finally pay the bills.

Therefore, when the Congress changes the new obligational authority requested by the President for a given year, it does not necessarily change the budget expenditures of that year by the amount of the increase or decrease. Such a change may spread its total effect on expenditures over a period of several years.

Since New Obligational Authority is expressed in comparatively round numbers, is the category considered in Congressional hearings on appropriations requests, and in the long run does not vary appreciably from Expenditures, New Obligational Authority is the data cited for statistical analysis in this study.

The Budget in Brief, op. cit., p. 53. (Italics in original.)

7 [bid., p. 5].

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IV. NATURE OF THE ANALYSIS

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The Department of Defense budget as formally presented to Con-Indicate has no been assessed as an init, that it receives the many has been an lyzed in detail to isolate social counitments. 8 fach bear of the or things when not be readily waster reserved of the ar ed services and the several Defense agencies, in presenting making or the comment, the annual long or the call the their annual programs for appropriations, describe and justify their With the second of the second planned expenditures to cognizant subco littees of the Appropriations and the same of th Committees in varying degrees of detail, in both for | prepared statemany maddening, the marks of Various Systems of gradual resolutions. ments which include tabular data, and in less formal questioning and The late it was not a constraint of the late of the la discussion with committee members in elaboration of prepared statements. which the state of lany of the items thus isolated, described, and discussed in the budget Miller anything the party of the notice of can be clearly identified as purely military in nature, such as weapons THE RESERVE THE PARTY OF THE PA and ammunition. Others are clearly social obligations, such as food the car will be a state of the and medical expenses. It wan be demonstrated almost invariably that no the common of the control of the con single item in the budget, however warlike or peaceful it may popear, to the second of the second, is absolutely lilitary, or non-military. Guns, for example, are used in the contract of the second of the party of t aports, hunting, and police work; certain types of field rations and And the control of th medical evices are peculiar to military purposes. The list of unlikely the factor was the to Coyun the de-

The Ludget as submitted by the President is invariably adjust d by the Congress in the appropriation process, so that NOA requested and NOA finally authorized ar seldom exactly the same. Major discrepancies in the 1963 budget of this nature resulted from differences of opinion between the legislative and executive branches over the controversial B-70 (or RJ-70) program, and the National Guard and Reserve program; see John A. Goldswith, "Senate Passes Defense Budget of \$48.5 Billion," The Washington Post, June 14, 1962. Goldsmith notes, however, that "... the Senate bill would finance a program only eight million dollars larger than the President's request," so that basing the analysis on the President's budget as presented and justified is not significantly inaccurate.

with all hadroning taken in the point profess or manager and Confining the contract of the principle of the second their places, and and one opening being your party and position and and pulling the second section of the value overest freely also at a proper to proper or constraint. the principles are the second of the place which we have been placements become to be transfer or common most an elice or present the court of the party of the party of the ball of the ball of the ball of the party of the ball property as first present on qualifier groups as intributed qualified as one that so fear, admirate triber you'll so much a stiffened by the said plantage of the large section of the said of principle and it delicans in the last principle of the same principle. of back one palgerer and plant productions on qualitate programme all had woulded briefly or height otherway proof spiding but a formal professional plantage to sell of the company particle of the contract of th

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applications of military devices is both long and interesting: tanks have been used to fight forest fires, Navy patrol planes have bombed icebergs threatening commercial sea lanes, the Air Force has dropped bales of hay to blizzard-bound cattle--rescue, disaster relief, and errands of mercy are commonplace. In determining social and military value for cost tabulations, however, it is necessary to consider only the most common conception of each budget item's role.

Where applicable, the costs of various types of social overhead in the defense establishment have been compared to the costs of similar goods or services on the civilian market: the ratio of civilian cost to military cost then yields a civilian cost factor by which military costs may be multiplied to determine comparable civilian costs. Dy indicating the relative cost of military items in the civilian economy, the civilian cost factor is an approximation of the relative cost of social overhead under conditions of disargament.

A separate chapter is devoted to each functional category within the main Defense budget, and additional separate appropriations for the Defense Department are considered together in Chapter VI. Social contributions are discussed; individual item costs within each social activity are totaled in a tabular summary, citing the source for each item; the civilian cost factor, where applicable is then applied. Lach

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When the civilian cost factor is greater than one, civilian cost is greater than military cost; when less than one, the military cost is greater. For example, an item which the defense establishment provides for \$2 and which the civilian economy provides for \$5 has a civilian cost factor of 2.5. If the two prices were reversed, the civilian cost factor would be 0.4.

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chapter is concluded with a tabular summary of all social costs associated with that functional category. Finally, in Chapter VII all Department of Defense contributions to social overhead are summarized by functional category and deducted from the total budget. The final result is the effective cost to the United States of maintaining military power, and an indication of the economic adjustment with respect to the Department of Defense which would be required by disarmament.

V. SOURCES OF STATISTICAL DATA

PERSONAL THE LYNCOTT LINE OF PARKS IN COLUMN TWO LINE

The Department of Defense budget and request for appropriations is presented for Congressional consideration and justified by the services in hearings before several subcommittees of both Houses concerned with military affairs. The initial request by the Department of Defense is for an authorization bill, which grants permission for the Department to pursue its program. This is followed by hearings on the request for an appropriations bill, which provides funds to pay for the activities authorized by the authorization bill. Jenior officials, civil and military, of the Department of Defense and the individual armed forces appear before cognizant Congressional subcommittees to justify both authorization and appropriation requests. A verbatim record of the hearings is published for the use of the Congress, and is available to the general public after any classified military information has been deleted.

nost of the data required for the present analysis is available in the hearings on Department of Defense appropriations held before

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subcommittees of the House and Senate Appropriations Committees. Most of the formal testimony is duplicated, consisting of prepared statements and justification tables presented first to the House and then to the Senate, and included in the record of each. Questions and answers on various aspects of the testimony are recorded verbatim as they occur in the hearings, and provide spontaneous information which varies between House and Senate Hearings. In addition, the Senate hearings include "reclama" testimony, requests for restoration of funds deleted from the budget by House action.

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CHAPTER II

LILITARY PLRIONNIL

A \$13,230,200,000 appropriation entitled "military Personnel" is butgeted by the Department of Defense in fiscal year 1963 for the compensation of the uniformed men and women of the armed forces, at an average strength of 2,60m,000 active members and 973,000 reserves. The appropriation request, as presented to Congress, is divided by branch of service, and within the service budgets is divided by active, reserve, and national guard personnel, and subdivided within these divisions by officer, officer candidate, and callsted personnel requirements.

Pay, Allowances, and Metired Pay. Subsumed under the categories:

Pay, Allowances, and Metired Pay. Subsumed under the category of Pay are basic salaries, called BasedPay; and additional incentives such as Proficiency Pay for certain key enlisted personnel; Hazardous buty Pay for flying, parachuting, submarine duty, and certain other dangerous specialties; and an extra remuneration called Special Pay for doctors and dentists, and for divers. The Allowances category includes funds for subsistence, quarters, clothing, trauzl and transportation, and a number of miscellaneous expenses. Metired Pay is in a class by itself, consisting of the benefits awarded to military personnel no longer on active duty, or to their survivors.

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of the cost of military power. Compensation for the time, energy, risk, and expertise involved in the planning and execution of operations and maintenance of warships, tanks, sircraft, and other weapons systems is an economic waste without the need to be prepared for war. Disar ament would relieve the United States of the need for these services, and consequently the need to pay for them.

not enough din uniquely dilitary activities, but must be a ployed by the armed forces to provide for ordinary social everhead, irrespective of any need for military preparedness. For example, nearly 55,000 officers and more than 109,000 enlisted personnel are exployed by the Department of Definse just to provide medical care to members of the armed forces and their dependents. Disarmament might shift the responsibility for providing such services elsewhere, but would not obviate their cost to the U.S. economy. Indeed, the cost of these social services on the civilian market might well be increased appreciably.

in four general categories: edical services, Welfare services, Civic Services, and Technical services, plus a iscellaneous category. These are responsibilities presently fulfilled by the Department of sef use which would be required of the U.S. economy in one form or another, armed or disarmed:

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LEDICAL JERVICES

redicine Dencistry Mursing Vet rinary Terapy Pharmacy Laboratories Hospitalization

WELFARE SERVICES

Religion Pecreation Information ducation Clerical Nutrition Disbursing

Law inforcement Firefighting Tr nsportation Construction Utilities Communications Storekeepin:

CIVIC SERVICES TECHNICAL BERVICUS

Engineering research Aerology Hy rography Oceanography Cartography Photography "pace

The Miscellaneous category includes Trainces, Students, Patients, Prisoners, and apprentices engaged in normal social activities but not specifically designated by the various service systems.

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In addition, one activity of primary Civic value but worthy of separate consideration is the Army National Card. ajor General D. ... CGowan, Chief of the National Guard Bureau of the Department of the Army, in his testimony for the House Appropriations Subcommittee stated the primary mission of the Army National Guard as follows:

To provide units organized, equipped, and trained to function efficiently at existing strength in the protection of life and property, and the preservation of peace, order, and public safety under competent orders of Federal or state authorities.1

U. 3. Congress, House of Representatives, Committee on Appropriations, Department of Defense Appropriations for 1963, Hearings before Subcommittee, 67th Congress, 2a Session, printed in six volumes (Washington: Government Printing Office, 1962) / Excepter cited as

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It seems apparent that even in the event of disarmament-quite often referred to as "disarmament to police force levels"—that a force comparable to the Army National Guard (though perhaps not quite as large), and the associated expense, would be required in the public interest. This does not appear to be the case with the Air National Guard, the mission of which is more strictly military in nature.

In order to determine the number of regular armed forces personnel concerned with ordinary social overhead in terms of Medical, Welfare, Civic, and Technical Services, the current classification structure of each of the armed forces has been analyzed in detail. All four of the armed services—Army, Navy, Marine Corps, and Air Force—classify both officers and enlisted personnel by occupational specialty. The Air Force, for example, classifies its officers in thirteen career areas, which are divided into forty—seven specialties, which are further subdivided into one hundred eighty—five separate sub—specialties, ranging all the way from "1025: Pilot, Helicopter" to "9936: Veterinary Officer, Technologist." Similarly, Air Force enlisted personnel are

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[&]quot;House Appropriations Hearings"/Part 6: "Appropriation Language; Army Reserve Components; Chemical and Biological Warfare Programs, Army; Testimony of Members of Congress, Organizations and Interested Individuals," p. 117.

It is recognized that the numbers of personnel presently employed in various social categories, and the overall force levels of the services, are being gradually reduced by several hundred thousanmen to achieve the force level requirements laid out in the FY 1963 Defense budget. hile the specific figures used in this part of the analysis are accurate only as of April, 1962, the percentages computed should not change appreciably and are considered sufficiently accurate for the level of generalization employed in the overall analysis.

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categorized by forty-five career fields and two hundred mineteen specialties, ranging from "01090: First Sergeant" to "98010: Dental Helper." The Marine Corps employs a similar classification arrangement, categorizing its officers by one hundred nine specialties, and its enlisted personnel by two hundred sixty-five, in forty-one occupational fields. The Army and Navy both assign classifications similar to those used by the Air Force and Marine Corps, and, in addition, organize many of their specialists into corps. The Army Quartermaster Corps, for example, corresponds to the Navy Supply Corps, the Army Corps of Engineers to the Navy Civil Engineer Corps, and so forth.

Analysis of the armed services by occupational specialty is not ideal for purposes of isolating personnel engaged in social services, since personnel are not always employed strictly according to classification. For example, a Navy hoiler tender might be assigned temporary police duty with the Shore Patrol; an Air Force mechanic might serve temporarily as a messman; an Army infantryman might act as a Chaplain's assistant; and so forth. But in general, assigned occupational specialties provide the best indication available of military personnel employment, and yield a representative percentage of officer and enlisted personnel required by social overhead. The detailed analysis is contained in Appendix B, including sources of statistical information.

Tabs 1 through 4 of Appendix B show the numbers of personnel, both

³To illustrate the extensive range of skills and specialtics required by the armed forces, the Air Force classification structures for both officers and enlisted personnel are included as Appendix A.

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officer and enlisted, of the Army, Navy, marine Corps, and Air Force, respectively, specializing in various activities required by social overhead. Table I included here is the overall summary of the statistics tabulated in Appendix B. Table I shows a total of more than 115,000 of the armed forces' 327,000 officers, and more than 1,000,000 of their 2,500,000 enlisted personnel, engaged in social services: a percentage for officers of 35.4 per cent, and for enlisted personnel of 43.5 per cent.

A reasonable estimate of the comparable civilian cost of the social services performed annually by the armed forces can be computed from data on average earnings published by the Bureau of Labor Statistics of the Department of Labor. Eulletin No. 1310 "National Survey of Professional, Administrative, Technical, and Clerical Pay, Winter 1960-61" tabulates the most current nationwide data on average annual earnings of selected professions in private industry, which correspond closely with the professional status of armed forces officers. The annual salary for accountants and aucitors, for example, averages out to \$8,870; for che ists, \$11,023; for engineers, \$11,600; for attorneys, \$12,375; for personnel directors, \$9,480; and for office managers, \$9,381.4 The overall annual average professional salary can be computed from these data at approximately \$10,500, for jobs comparable to those performed by military officers.

Survey of Professional, Administrative, Technical, and Clerical Pay, Winter 1960-61," Bulletin No. 1310, (Washington: Government Printing Office, October, 1961), p. 12.

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TABLE I SUMMARY OF ARMED FORCES PERSONNEL CLASSIFIED IN OCCUPATIONAL SPECIALTIES REQUIRED BY SOCIAL OVERHEAD*

	Officer	Enlisted
Specialists in Medical Services	35,183	100,267
Specialists in Welfare Services	11,188	356,698
Specialists in Civic Services	58,536	411,584
Specialists in Technical Services	10,699	12,517
Miscellaneous Specialists		191,437
Total Number of Social Specialists	115,606	1,072,503
Total Personnel in the Armed Forces	327,001	2,465,226
Per Cent Required by Social Overhead	35.4%	4.5.5%

^{*}Detailed analyses of each of the armed services by occupational specialty classifications are contained in Appendix B, including the sources and justifications of figures summarized here.

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Average compensation for those civilian occupations which correspond to enlisted service in the armed forces is tabulated by the Bureau of Labor Statistics in different forms in several different documents. A current and convenient summary is contained in "Employment and Larnings, Vol. 8, No. 10" for April of 1962; table C6 of this booklet tabulates the gross average weekly earnings for production workers in mining an manufacturing, construction workers in contract construction, and non-supervisory workers in wholevale and retail trade. Overall weekly earnings for these 25,000,000 workers throughout the United States average out at \$98.10, an annual compensation of about \$5,000.5

Average annual officer and enlisted salaries for the armed forces can be co-puted by dividing the total pay and allowances budgeted by the four armed services by the total number of officers and enlisted personnel budgeted for. These two computations result in an average enlisted salary of about \$3,000 (\$3,086.73) and an average officer salary of about \$8,900 (\$8,874.04). The ratio of average civilian salary to

^{5\$5,101.20.} A Bureau of Labor Statistics "Summary Release, No. 1 of 3 (31 Areas)" dated March of 1962 and entitled "Occupational Larnings in Jajor Labor Markets, 1961-62" tabulates average earnings in detail for selected occupations in six broad industry divisions by geographic area of the U. 5. "Office Clerical" earnings average out to about \$4,160 annually, and "Maintenance and Powerplant" and "Custodial and material ovement" earnings average about \$4,825. Thile these ar somewhat below the average assumed, the wage scales for union building trades announced in a Department of Labor News Release dated 27 April 1962 (USDL:5171) average \$3.87 per hour, about \$7,7h0 annually, considerably above the average assumed, indicating that \$5,000 is a reasonable overall estimate.

These statistics are tabulated in House Appropriations Hearings, Part 1: "Military Personnel," passim, in the budget presentations made by each of the armed services to Congress.

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average military salary then yields civilian cost factors of 1.67 for enlisted personnel, and 1.18 for officers, in providing social services for the citizens presently in the aracd forces, from which can be computed the comparable cost of providing these services under conditions of disarmament. Table II is a recapitalation of this military and comparable civilian compensation for social overhead in the aracd forces. The percentages of officer and enlisted personnel required by social overhead, and civilian cost factors, are applied to total military base pay, resulting in a total military cost of social services of nearly \$3 billion, and a comparable civilian cost of more than \$1 billion.

Incentives

Incentive pay is awarded in two general categories, Hazardous Duty Pay and Special Pay. The term "Hazardous Duty" is 10 longer popular with the armed forces; the term currently preferred to describe the compensation awarded for the extra risk involved in certain duties is simply Incentive Pay. Hazardous duties for which such pay is awarded include: Flying, Parachuting, Submarine Duty, Explosives Disposal, Care of Lepers, and Duty as Human Subjects in Thermal Stress, Low Pressure Chamber, and Acceleration and Deceleration Experimentation. Of these, parachuting, submarine duty, and explosives disposal are almost entirely the result of military requirements which would be obviated by disarmament. Leprosy cuty, and acting as human experimental subjects in midical research, on the other hand, are activities which would continue to be desirable.

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TABLE II

MILITARY BASE PAY FOR SOCIAL SERVICES, WITH COMPARABLE CIVILIAN COMPENSATION

			digita diligensida provide di Controlla di Santa
	Officer Page*	Enlisted*	Page*
Base Pay			
Arwy Navy USAC USAF	\$ 660,807,300 8 \(\begin{aligned} \lambda_1,922,000 & \lambda_27 \\ \lambda_1,23\lambda_000 & \lambda_27 \\ \lambda_3,0\lambda_1,000 & \lambda_68 \\ \end{aligned}	\$1,693,730,L00 1,194,765,000 310,661,000 1,584,335,000	139 2h2 293
Military Total	\$2,020,014,300	\$4,783,491,400	
% Social Overhead	35.1:%	43.5,	
Social Overhead Cost	\$ 715,085,062	\$2,080,818,150	
Civilian Jost Factor	1.18	1.67	
Comparable Civil Cost	\$ 843,800,000 (rounded)	\$3,675,000,000 (rounded)	
Total Military Base Pay	for Social Services:	\$2,795,903,000	
Total Comparable Civilia	nn Compensation	\$4,318,800,000	

^{*}Page numbers cited locate statistical data in House Appropriations Hearings, Part 1.

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^{*}Base Pay listed for Enlisted personnel includes Proficiency Pay.

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Flying is the major category in which incentive pay in awarded, and the one for which common social value is least easily isolated. It appears likely that most military flying would be obviated by disarmament, including borbers, tankers, fighters, interceptors, and most airlift and reconnaissance. But it also seems likely that a number of THE REPORT OF THE DAY OF THE PARTY. aerial tasks presently performed by the armed forces would continue to be needed: search and rescue, aerial photography and mapping, hurricane and weather reconnaissance, transportation of the President and other and the state of t government officials, administrative flying, and part of the mission of the Military Air Transport System (MATS), which is the government air-DESCRIPTION OF STREET PROPERTY AND ADDRESS OF THE PARTY AND line comprised of both Air Force and Navy aircraft and personnel, handling both passengers and freight. Perhaps the least obvious social La Car Series Torrer The Tracky contribution of military flying is the training and experience it prothe product will be vides for the many aviators who leave the services to become airline and the minimum research to three so the probability pilots, or commercial pilots in other branches of civil aviation. the state of the section of the sect

A reasonable estimate of the percentage of military personnel flying as a result of social overhead can be assumed from the figures supplied by the individual armed services to Congress showing the percentages of their personnel engaged in military operations, as opposed to those involved in non-operational activities:

OF HE SPECIAL PROPERTY AND ADDRESS.

⁷Statistics cited here for the Army, Navy, and Marine Corps appear in Mouse Appropriations Hearings, Part 1, pages 62, 199, and 22h respectively. The Air Force figures were provided by Mr. James H. Banton, of the Air Force Office of Manpower Organization.

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	AR.IY	NAVY	USIL	USAF
Operating Forces Supportin Forces Training Forces	67.67 8.7 -15.L	52.9 12.4 16.7	66.2% 9.0 18.L	67.3 15.0 17.0
Other Activities Non-Operational	32.4%	8.0 37.1%	6.li 33.8%	32.7

These data suggest that approximately one-third of the flying presently was in he we maked to look alliest property for the figure in perfor ed by military personnel would still be required even should the District of the property of the cold to the problem on the United Status disarm, hence that this percentage of present military mercian country performs to his million of more helf it hillion incentive pay for flying, or its civilian equivalent, would still be required of the economy. The current issue of the Federal Aviation The same of the sa Agency's Statistical Handbook lists the average annual salary of many to the same and the manual special first land bury, these civilian pilots and co-pilots at \$10,513.2h, for duties corresponding to per principal man de una llarger point tils principal personal della principal della personal de those perfor so by aviation officers in the armed forces. The average the property let me sould be able to be the second of the letter be alary for "other flight personnel," who perform duties corresponding to alary 131 Total IIIgno porsonner, and present and or of 0 those of military enlisted aviation crewmen, is listed at \$13,969.87. the same the set is produced to be a finding and making the line subtracting from these figures the average annual salaries of \$10,500 and \$5,000 co puted from Bureau of Labor Statistics data for the two MALE TO SERVICE THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS. level: of civilian workers corresponding to military officers and enliste on, respectively, yields a sum comparable to incentive pay for Dr. water the party special may be such the real section, the flyin for pilots of about \$6,000 annually, and for crew-members of fair is a series of a military production, and made court about 9,000 annually. Air Force testi ony before the Appropriation had to prove the first transfer of the party subcommittees of Congress on appropriations requests for military

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Su. . Faderal Aviation Agency, FAA Statistical Handbook of Aviation, 1961 Edition (Washington: Government Printing Office, 1961), p. 90.

⁹ sipra, p. 10.

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Personnel tabulates annual rates of flying pay for both officers and enlisted men, approximately \$2,100 and \$1,000 respectively. 10 The ratios of these two figures to those computed for civilian aviation yield civilian cost factors for flying of 3.33 for officers and .00 for enlisted men. Non-operational flying percentages and these civilian cost factors are applied to total military incentive pay for flying in Table III, yielding a comparable civilian cost for aviation social services presently performed by the military of nearly half a billion dollars under conditions of disarmament.

The other category in which Incentive Pay is awarded is called Special Pay, for divers, and for medical specialists. Curiously, diving and salvage work is not listed with the other hazardous duties by the armed services, but does qualify for extra incentive compensation in terms of Special Pay. Doctors, dentists, and veterinarians also qualify for Special Pay on a graduated scale. Doctors and dentists with less than two years service, and all veterinarians, receive an extra \$100 per month. This Special Pay is increased in steps for doctors and dentists up to a maximum of \$250 per month for those with over ten years service. It seems apparent that Special Pay for both divers and medical specialists is virtually unrelated to military preparedness, and would constitute an expense to the U.S. economy disarmed or not. All military Incentive Pay contributing to social overhead is summarized in Table III, at a total of \$461,103,120.

¹⁰ House Appropriations Hearings, Part 1, pp. 291 and 295.

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TABLE III

MILITARY INCENTIVE PAY FOR COCIAL SERVICES WITH CO PARABLE CIVILIA COMPENSATION

	Officer	Payex	tnlisted	Page*
Hazardous Duty Pay				
Flying, 52.1 Army 37.1% Navy 33.8, Usic 32.7% USAF	\$ 5,660,900 18,315,200 3,696,000 59,100,300	8 138 239 288	\$ 918,200 6,172,700 622,900 7,229,000	15 140 245 293
Total Civili n Ost Factor Comparabl Civilian Cost	\$ 86,802,100 3.33 \$289,333,000		\$ 14,9L2,800 9.00 \$134,485,200	
Experiental, etc. Army Navy USAF Total	\$ 225,720 61,000 226,000 \$ 512,720	& 138 292	\$ 480,000 110,000 787,000 \$ 1,377,000	10 11,0 293
Special Pay				
Medical -pecialists, Army Pavy USAF Total	\$ 13,277,400 10,342,000 9,126,000 \$ 32,745,400	8 138 288	epitral ration	
bivers, Army lavy U'C	\$ 15,800 7h1,000	8 138	\$ 33,000 1,831,000 29,000	140 140 215
iotal	\$ 756,800		\$ 1,893,000	
Total Military Incentive	Pay for Jocial .	services	\$139,030,120	
Total Comparable Civilia	n Compensation		\$461,103,120	

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II. ALLONANCES

The allowances paid to military personnel result almost entirely from the requirements of social overhead. In general, allowances provide strvides which the national economy would have to provide for the men and been presently comprising the armed forces in any event, and have little to do with the military activities and responsibilities of the defence establishment, hence would have to be provided elsewhere in the event of disarmament: food, housing, clothing, some travel, and number of disarmament: food, housing, clothing, some travel, and

Food

the same of the same of the last of the same of the sa The costs of feeding military personnel are budgeted by the De-The first term of the first te fense Department in two categories, one call the Basic Allowance for THE PARTY OF THE PERSON AND ADDRESS OF THE PARTY AND ADDRESS OF THE PAR Subsit nce, and the other an alternative tere de subsistence in ind. safety and the party of the officery products, we seek firm their The Posic Illowance for Subsistence is paid lirectly to all liftary and the profit of the second s meabers who provide their own meals. This includes all officers, who must pay for their meals whether they subsist in military messes or in private quarters; it also includes most enlisted personnel who have dependent, and who, consequently, subsist in the private homes main-CONTROL OF TABLES OF CASE OF C tained for their families rather than in military barracks or aboard partition of the control of the cont ships. The allowance amounts to \$17.68 per wonth for officers, and to the state of the s \$1.35 per day for enlist a personnel, and is intended to provide fool the late of the latest support to the same of the latest state of only for the military member and not for any of his dependents. Sustenance provided by lilitary messes for those enlisted personnel who do AND REAL PROPERTY AND ADDRESS OF THE PARTY AND not receive the Basic Allo once for Subsistence is fund a as subsistence Applied Salarana in the case of the Contract of the Salarana State in King. An acsociated expense is the maintenance of commissary stores,

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military supermarkets where service families can buy food at a saving as a fringe benefit. Ordinarily military commissaries are self-supporting, but in certain areas where comparable civilian facilities are not available, require appropriated funds. Table IV summarizes the total cost to the Defense Department of feeding military personnel; the bill comes to more than a billion dollars, with slightly more than half being paid out in the Basic Allowance for Subsistence, somewhat less than half devoted to Subsistence in Kind, with just a fraction to maintain commissary stores.

Housing

The cost of housing military personnel and their dependents is handled in a fashion similar to providing subsistence. A Basic Allowance for Quarters (more commonly referred to as "BAQ") is paid on a scale graduated by rank to all military personnel who must find their own quarters in local civilian communities. Military personnel for whom housing is provided in terms of barracks and public quarters receive no BAQ; this sum is forfeited to be applied instead to defraying the costs of maintaining public quarters.

The cost to the Department of Defense of dependent housing and public quarters has been a subject of strict annual scrutiny by the Congress. The Assistant Secretary of Defense (Comptroller), Charles J. Hitch, in his testimony before the House Appropriations Subcommittee on Defense Appropriations, carefully tabulated and justified for the Congress all costs for military dependent housing, including BAQ, a projected increase in BAQ, BAQ forfeited where housing is provided, and

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ALLOWANCE: BUDGETED FOR BUT ISTANCE

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TABLE IV

	Basic Allowance For Subsistence	Paje*	Subsistence In Aino	Page *	Commissary Cores*
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avy	2,100,000		151,600,000	145	3,357,
Officers	1.2,551,000	138	213,000	161	232213-5
Unliet	88.517.000	110			
iashi en	1,697,000	142			
Laucts	337,000	112			
LUSETVUS	1,816,000	159			
U C			12,100,000	247	1,29,000
Office's	9,555,000	237			
Inlist	23,045,000	2,75			
Ca-et3	275,000	21.6			
ROU	122,000	269			
Ruserves	2,374,000	269	TAX Sec. Yes.	- 10	
UAF	220 21 0 023	0.0	75,,,,,,,,,,,	207	2,500,000
Officers unliste	77,048,000	208			
Car	191,642,000	293 296			
Air Natl Gue	1,306,000 ard 2,753,000	390			
Leserv-s	1,299,000	432			
		4,76			
TOTALS	\$542,800,900		المار الأسار الرازب		\$6,206,000
Tatal Allerma	Lan Desdanted for	Paulo m 2 = 6			
ilitary Per	es Budgeted for	NIDSI E I	ics of	6.2	161 521 000
retreeth Lev	DOMEST T			21	, 164,574,900

^{*}House Appropriations Hearings, Part 1.

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the vy and larine corps figures are cited in House Appropriations
Hearing, Part 3: "Operation and laintenance." Army an dir Force
figure are not specifically identified, and have been interpolated.

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also the costs of building, financing, and maintaining wherry, tapehart, and other military housing, as well as mortgage insurance premiums paid by the services in behalf of their members. Not all of these expense are budgeted in the Military Personnel appropriation; some of the building costs, as well as the costs of building military barracks and officers' quarters, are funded under the military Construction appropriation. However, in view of the convenient tabulation made by Secretary Hitch, all dependent housing costs are considered together in Table V. Costs for barracks, and for living quarters affoat, will be considered elsewhere. Table V is a summary of all the obligations budgeted by the Department of Defense for dependent housing as discussed by Mr. Hitch, and shows a total Defense Supartment contribution to social overhead of nearly two billion dollars.

TABLE V

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CONTRACTOR OF STREET, SAID BOTTOM POR STREET, THE STREET, SAID STREET,

OBLIGATIONS BUDGIED FOR DEPENDENT HOUSING FOR MILITARY PASSOURA.

Basic Allowance for Quarters		\$1,393,035,000
maint mance of Surplus Commodity	Housing	6,900,000
New Construction		319,113,000
ajor Lorove nts		32,249,000
Wherry Housing Acquisitions		41,153,100
Capehart Housing Payments		118,359,30
Surplus Commodity Credit Housing		7,693,00
Rental Guarantee Payments		110,000
Houses Leased as Public Quarters		13,256,000
Nortgage Insurance Premiums		4,515,000
	TOTAL	\$1,940, 21,00

Chairman, Joint Chiefs of Staff; Service Secretaries and Chiefs of taff; Overall Financial state ints; ata tabulate here are erived fro Tables 3 and 4 of Secretary hitch's presentation, pp. 206-287.

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Clothing

All citizens, including any who may be members of a military establishment, are clothed as a normal and continuing function of social overhead. Disarmament would probably change the source and type of clothing required, but would not do away with the requirement. The Department of Defense presently budgets funds to provide an initial clothing allowance for all enlisted personnel, which purchases all normal wearing apparel from underclothing to overcoats. In addition, funds are provided for the purchase of various types of special clothin, such as foul weather gear, work clothes, dress and ceremonial garb, an even civilian clothing. The Army describes this appropriation as follows: "Provides for procurement of initial issue of clothing to enlisted personnel, and for cost of civilian clothing to dilitary personnel authorized to wear civilian clothing. Also provides for supplementary issues in kind, clothing allowances for special categories of troops such a military police and escort estachments, and cost of replace int issues due to changes in body stature during the first 6 months of service."11 Officers in the regular service must provide their own and here. Such as your est indeed at each time uniforms and clothing. Reserve officers and officer candidates, however, like enlisted personnel, receive an initial outfit at the expense of the govern at. Further ore, enlisted personnel receive an allowance for the control of Plants, but the party and the the maintenance and replacement of the initial outfit of clothing, from an appropriation d scribed by the Army as follows: "Provides for a

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¹¹ base Appropriation Hearings, Part 1, p. 13

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annetary allowance in lieu of clothing in kind to enlisted personnel in the Army after the first 6 months of service. This includes a basic allowance of \$4.20 a month for enlisted personnel who have 6 to 36 months of service, and an allowance of \$5.40 and \$6 respectively for male and female enlisted personnel with over 36 months service. Also includes monetary allowance for civilian clothing, and for supplementary clothing items required by enlisted women." All four services provide similar allowances for their personnel, although clothing costs are tabulated and described by the different services under a variety of titles:

Purchase of Individual Clothing, Clothing and Uniform Aflowance, maintenance Allowance, Allowance in Lieu of Clothing, and others. Table VI is a tabular summary of all clothing costs budgeted by the Department of Defense, at a total cost of nearly \$250,000,000.

Truvel

ents, and their household goods, must be charged to the price of military power, since the necessity for moving is often the direct result of the military needs of the services. Various types and numbers of qualified personnel are required to man the U. 5. military installations throughout the United States, and at any foreign points throughout the world; in addition, the services find it desirable to shift their personnel periodically for morale and career purposes. The categories under which the Per ament Change of Station (PC3) travel of ilitary personnel and their

¹² Ibid., p. 15.

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TABLE VI

ALLOWA CES LUDGLIED FOR CLOTHING HILITARY PLRSONNEL

Service	Anount	Page*
Army		
Officers	\$ 4,820,000	9
Enlisted	83,610,000	13, 1
Reserves	2,000,000	
Navy		
Officers	2,477,000	139
Enlisted	60,566,000	14.2
Cadets	1,112,000	142
Reserves	1,328,000	159
		different for an
Ja1C		
Officers	394,000	241
unlisted	17,162,000	21,6
Cadets	178,000	246
Reserves	1,399,000	26)
CONTRACTOR OF THE PERSON NAMED IN COLUMN	I be block required approaches from	
JSAF		
Officers	2,810,000	263
Enlisted	67,951,000	291
Cadets	24,000	296
Air Natl Guard	1,981;,000	39
Reserves		432
	MANUAL CONTROL	
TOTAL	\$249,815,000	

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families is budgeted provide an indication of how much PC3 travel is comparable to civilian travel, hence would still be required in the event of disarmament. These categories include:

Accession Travel
Training Travel
Operational Travel Between Duty Stations
Rotational Travel To and From Overseas
Separation Travel
Travel of Organized Units

merchanic for the last of these purpose for all the process of Operational, Rotational, and Unit Travel, in general, are the most expenmention to annihilating the bar, the Print, betterny to perfer sive, consuming from 50 per cent to 90 per cent of total PC3 funds within of the country for the design designing the matrix present at most owner. the various services' travel budgets; these three categories also appear type to the term of the property of the party of the part to be the more strictly military in nature. Accession, Separation, and Training Travel correspond more closely to the travel required in a the supplier or on and or amortism of application while imports. typical civilian career. Accession Travel is that performed by illitary personnel in reporting to their initial duty stations upon entering the to condition to the light could be full tray for each of the service; Separation Travel is that required to return home upon comple-Committee and the control of the con tion of military service; and Training Travel is that required to move IN TAXABLE DESCRIPTION OF THE PROPERTY OF THE PARTY OF TH to and from schools, colleges, and training centers. Similarly, most civilians will move at least once in going to a new job or branch are contained in their females were arrest to appropriate the village six office; most will move to a new home or community upon retirement; and most civilians, particularly in the age group comparable to military personnel, periodically travel to and from training courses, colleges, to the Person of the Control of the Person of the Person of the and conventions.

Even though a number of civilian professions require periodic moves, seldom are the moves as far or as frequent as those inherent in military service. In its most recent report on "hobility of the Population of the United States," the Bureau of the Census tabulates in

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exhaustive detail the number of moves made annually by persons and families in the United States, by race, age, sex, and so forth. Table 6 of the Mobility Report for 1960 (published in January of 1962) indicates that for the one year period from March of 1959 to March of 1960, 19.9 per cent of American males between the ages of eighteen and sixty-four moved at least once: it is also noted that these figures have not changed appreciably for the last thirteen years. 13 For military personnel the percentage is considerably higher. Air Force testimony in justification of its request for PC3 funds includes the total number of persons oving, from which can be computed a representative percentage of 64.3 per cent of the armed forces making at least one move annually. 14 The ratio of this percentage to the smaller percentage of civilians moving annually yields a civilian cost factor of 0.31. In Table VII, this cost factor is applied to the total cost of military Permanent Change of Station Travel, \$799,125,000, resulting in a comparable civilian cost of \$217,729,060 for travel required under conditions of disarmament. It is interesting to note that the comparable civilian cost of military travel as computed in this fashion very closely approximates the figure derived by summing the costs of Accession, Separation, and Training Travel.

¹³U. S. Bureau of the Census, "Mobility of the Population of the United States, March 1959 to 1960," Current Population Reports, Population Characteristics, Series P-20, No. 113 (Washington: Bureau of the Census, January 22, 1962), pp. 18-20. A news item, "New Rules Slated for Household Movers," The Washington Post, July 8, 1962, bears out the statement: "The household goods carrier industry estimates that one of five American families moves its belongings every year. . ."

¹¹ House Appropriations Hearings, Part 1, p. 325.

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TABLE VII

MILITARY PCS TRAVEL REQUIREMENTS, AND COMPARABLE CIVILIAN COST

Service	Amount	Pag	EN
Army			
Regular	\$353,000,000	1	.9
Reserve Natl Guard	4,000,000 2,000,000		
Necl Chara	۵,000,000		
Navy			
Regular	155,300,000	13	
Reserve	6,361,000	16	
NROTC	1,104,000	16.	3
USAC			
Regular	40,600,000	23	1
Reserve	3,622,000	26	
OCs	288,000	26	9
USAF			
Regular	227,168,000	33	
Reserve	1,729,000	43	
Natl Guard	3,954,000	39	
		The state of the s	
Total Military PCS Travel	6700 104 000		
Civilian Cost Factor	\$799,126,000		
110000	0.75		
Composite Civilian Co.	4010 000 000		
Comparable Civilian Cost	\$247,729,000		

^{*}House Appropriations Hearings, Part 1. Army Reserve and National Guard figures are interpolated.

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Miscellaneous Allowances

Special allowances paid to military personnel, or paid in their behalf, which must be budgeted by the Department of Defense include:

Overseas Station Allowances
Foreign Duty Pay
Reenlistment Bonuses
Severance Pay
Death Gratuities
Lump Sum Terminal Leave Payments
Employer's Contribution to Social Security
Contributions to State Retirement Systems
Mortgage Insurance (Included with Housing Costs)
Interest on Enlisted Personnel Deposits
Expenses of Military Prisoners

Overseas Station Allowances and Foreign Duty Pay, while compensation for extraordinary cost of living expenses, are, nevertheless, part of the cost of military power, since both would be almost entirely obviated without a military establishment with the present overseas responsibilities of the United States Department of Defense. The remainder of the miscellaneous allowances are expenses incident to ordinary social overhead: Reenlistment bonuses correspond to the occasional incentive bonuses awarded periodically in civilian employment; Severance Pay, Death Gratuities, and Lump Sum Terminal Leave Payments for leave earned but not taken constitute final settlement compensation for services rendered; Contributions to Social Security and State Retirement Systems are self-evident social services; Mortgage Insurance and Interest on Deposits are normal financial transactions unrelated to military power; Expenses of Military Prisoners include rewards for apprehension, costs of gratuitous issue of toilet articles and so forth, costs of confinement of military prisoners in non-military facilities, and other normal

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III. RETIRED PAY

A total of \$1,059,000,000 is budgeted by the Department of Defense for the pay and allowances of retired military personnel and their survivors. Thirty million dollars of this sum is requested by separate legislation, to compensat, and adjust payments presently being made under two different retirement acts, which it is desired to consolidate into a single system. It should be noted that military retirement pay is a sum separate from any veteran benefits, which are handled through separate appropriations to the Veterans' Administration, and not through Department of Defense appropriations.

It seems apparent that military Retired Pay is a Department of Defense contribution to normal social overhead. This is an obligation resulting from services already rendered, and would have to continue whether the military establishment did or not, a situation clearly recognized by both the Department of Defense and Congress. Representative Daniel J. Flood, of Pennsylvania, in discussing the testimony of J. A. Wylie, Director of Budget and Finance of the Office of the Secretary of Defense, on Military Retired Pay, remarked: "I also like the first sentence of your next to the last paragraph: 'Payments under this appropriation are required by law and any funds that are not required revert to the Treasury at the end of a year.' I do not know how you

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Mavy	13,111,000 115	Arry, Afform	115,705,931
USC	9,425,000 210	an Livino.	95 (719) 601 17
USAF	18,411,700 193	Christia	100,090 12
Total	151,000	Mawy Officers	17,197,000 LSS
SEVENATION PAY		and in Feel	39,685,000 (6)
Arry Derivers	1 901,000 0	/ loshipsen	170,000 22
ni ted	1,224,000 10	Cadets	17,000 1/2,3
Feserves	367,500 8	Ul.C, Officers	2,362,000 237
Navy, Officers	1,170,000 1 8	Enlist d	10,257,000 212
_nlist d	1,773, 50 141	cadets	21,000 2/6
FERTVE	376, 138	U.F. Ifi	2,575,000 -31
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Total	\$ 14,105,300	PL 1 LL DLPOSIT	
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Navy, Micers	10,231, 138		
Enlisted	39, 25,000 1/1	TOTAL STRUCTURE UP	
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nlisted	7,5 7, 3 245		
U.A., Officers	11,231,002		
nlist	57,100,000 233		
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^{*} House Appropriations Hearings, Part 1. *Budget Appendix, pp. 207-0.

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could state the position any more clearly than that." Even if no military establishment had ever existed in the United States, it seems obvious that a sum comparable to military retirement pay would have to be provided by the economy in one form or another. In this area, disarmament would have little or no effect.

IV. SULLARY

year 1963 budgeted under the Military Personnel appropriation are summarized in Table IX. Out of the total New Obligational Authority of \$13,230,200,000 requested, more than seven billion dollars is required for military pay and allowances which are only incidental to the requirements of military power, but constitute a continuing component of social overhead whether armed or disarmed. Computing comparable civilian costs, where applicable, to supply these same services under conditions of disarmament yields an equivalent Department of Defense budgetary commitment to social overhead estimated at more than ten billion dollars.

appropriations request is discussed in detail pp. 469-500, both the \$1,029,000,000 normal appropriation request, and the supplementary \$30,000,000 bill to be presented separately.

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TABLE IX

CO.P. HABLE CO.T TO THE U. S. ACONO. Y OF SOCIAL SERVICES BUDGETED BY THE DEPARTMENT OF DEFENDE FOR MILITARY PERSONNEL

Pay			
Base Pay	of realist to	\$4,318,800,0	00
Incentives		461,103,1	20
Allowances			
Subsistence		1,164,574,9	00
Hous ing		1,940,421,0	JJ
Clothing		249,815,0	00
Travel		217,729,0	U)
Miscellaneous		575,635,2	L.J
National Guard	-	238,500,0	00
Natired Pay		1,059,000,0	00
	TOTAL	\$10,255,578,2	50
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CHAPTER III

OPERATION AND MAINTENANCE

The many and varied routine operating expenses of the Department of Defense are funded under an appropriation entitled "Operation and Maintenance," at a total cost of \$11,608,800,000. More than half the appropriation is specifically required to maintain ready weapons systems for military power. Billions of dollars are allotted to the operation, upkeep, repair, storage, and servicing of missiles, tanks, aircraft, warships, submarines, and all the incredibly complex and expensive impedimenta of modern warfare. Operation and maintenance must also provide for fuel, ammunition, spare parts, posifications, conversions, and supplies of every conceivable nature. It maintains stores, warehouses, schools, courts, prisons, machine shops, post offices, and a host of other facilities. In addition, it also provides for the pay and allowances of the Defense Department's 1,059,970 civilian employees all over the world.

Signif: cant sums must be provided by this allotment for a host of social activities only incidentally related to the requirements of military power, components of social overhead which would continue to be required under conditions of disarmament. These may be subsumed under

nest to tall law or time, from long post-

¹For general discussion, see House Appropriations Hearings, Part 2, testimony of Secretary Hitch, pp. 275 ff. For individual service budgets and specific appropriations requests, see House Appropriations Hearings, Part 3: "Operation and Maintenance"; and Senate Appropriations Hearings, pp. 468-649.

III STREET

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the same categories employed for the discussion of Military Personnel in the previous chapter: Medical Services, Welfare Services, Civic Services, and Technical Services.

Operation and Maintenance funds are obligated within the individual service budgets, and are also obligated by the Department of Defense for a number of department-wide activities of both social and military value common to all the services. Two subdivisions of the Office of the Secretary of Defense which supervise areas of social overhead for all the services and the department as a whole are the Office of the Assistant Secretary of Defense (Manpower), and the Office of the Director of Defense Research and Engineering. The Assistant Secretary for Manpower "is responsible for manpower, personnel and reserve affairs; health, medical care and sanitation; Armed Forces information and education; personnel and physical security activities; and Defense participation in emergency and continuity of Jovernment planning." The Director of Defense Research and Engineering supervises all research, development, test, and evaluation activities within the purview of the Department of Defense, discussed and justified more thoroughly in Chapter V.

The current administration, in the person of Secretary Robert 5.

McNamara, has placed considerable emphasis on the continuous process of improving administrative efficiency in the Department of Defense. Four areas of activity common to all the services have been removed in large measure from the individual jurisdictions of the services and placed

² upra, p. 15 for component activities.

³House Appropriations Hearings, Past 3, p. 615.

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under the supervision of a central superior for the Defense Department as a whole; these include a Defense Intelligence Agency (DIA), a Defense Supply Agency (DSA), a Defense Communications Agency (DCA), and a Defense Atomic Support Agency (DASA). Three of these four are almost entirely military in nature. The Defense Supply Agency, however, is not. Indeed, its activity is almost entirely non-military. The common activities have not been taken over in their entirety by the Department of Defense agency; each of the services retains a residual activity for those requirements unique to its particular mission. In the case of the Defense Supply Agency, the supply operations retained by the individual services consist largely of traffic in specifically military items. The supply activities which have become the centralized responsibility of DSA concern items of social overhead, which in general are the ones common to all the services, as indicated by the organization of the Agency, which consists of the following subdivisions:4

Medical Supply Center Industrial Supply Center Petroleum Supply Conter Subsistence Supply Center Construction Supply Center Traffic Management Service Clothing & Textile Supply Center Disposal Division General Supply Center Headquarters, DSA

Automotive Supply Center Electronics Supply Center Logistics Services Center Property Utilization and Surplus Sales Offices Bidders Control Office

The so-called "single manager" concept within the Department of Defense has elicited considerable interest-both enthusiastic and skeptical--

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⁴Ibid., p. 771.

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in Congress and the armed services, and has yet to be proven. ⁵ It seems apparent, however, that the routine functions presently fulfilled by DA are ones which would be required of the economy, armed or disarmed.

A number of additional miscellaneous activities are included in the Office of the Secretary of Defense, many of them tabulated as Intradepartmental and Interdepartmental activities, which contribute to social overhead.

All of the miscellaneous activities, of course, have some military application, but, in general, are programs which would be required or desirable in one form or another whether the United States had a Department of Defense to handle them or not. The complete list, which includes such diverse activities as a Council on Youth Fitness, coordination of the U. S. Antarctic program, the Court of Military Appeals, an administration of the Petroleum and Cil Shale Reserves, is included as Appendix C, and the costs of the individual activities are included in the categorical discussion which follows, in terms of Medical, Welfare, Civic, and Technical Services.

I. MEDICAL SERVICES

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Medical and dental care is provided out of Defense Department

Operation and maintenance funds not only for military personnel in

military hospitals, local dispensaries, and abound ships, but also for

For the Department of Defense position, and a detailed description of the activities of the Defense Supply Agency, see DSA pamphlet An Introduction to the Defense Supply Agency (Washington: Government Printing Office, 1962.)

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their dependents, in military medical facilities and elsewhere under the Dependents' Ledical Care Act (the program is commonly referred to as "Medicare") which pays for certain expenses incurred by dependents of military personnel under treatment by civilian doctors and in civilian hospitals and medical facilities. Provision is also made to treat certain government officials such as the President, Members of Congress, and other, in military facilities, and to provide care for retired or disabled personnel and their dependents. Brigadier General H. W. Sloan, Army Deputy Surgeon General, in speaking for the Army in the justifications of Operation and Maintenance requests before the Congress, neatly summed up the medical mission not only of the Army, but of all the armed forces. Like the Army Medical Service, each of the military services

. . . must continually improve and develop previntative and therapeutic medicine, it must operate and maintain modern medical treatment facilities staffed with highly trained professional personnel in all fields of medical science, and it must conduct a continuous training program for its personnel in order to keep them abreast of the latest developments in civilian and military medicine.

Not only do the armed services provide medical care for military personnel and their four million dependents, but they also provide it at a considerable saving over comparable civilian costs. In seeking funds for the construction of hospitals under another appropriation (see Chapter VI, Part I: Filitary Construction), the Navy was required to present to the Congress comparative annual cost data for military and

House Appropriations Hearings, Part 3, p. 88.

⁷House Appropriations Hearings, Part 3, p. 99; dependent strength estimates for fiscal year 1963 total 4,011,000.

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civilian medical care. For obstetrical and maternity care, the ratio was more than two-to-one: \$69.80 average cost per day uncer hedicare in civilian facilities, and \$34.25 per day in the Army Hospital, Fort MacArthur and the same sum for the Naval Hospital, Long Beach. An overall table of "Comparative annual cost data for care of dependents in civilian facilities and in proposed Naval Hospital, Long Beach" yields a representative civilian cost factor of 1.73, at \$59.30 estimated average cost per day in civilian facilities, and \$34.25 per day in military facilities. In Table X the operating expenses of the armed services for medical care funded under Operation and Maintenance are summarized. The total cost to the Department of Defense is more than \$436 million, with approximately one-fifth allotted to the Navy, and two-fifths each te the Army and Air Force. With the civilian cost factor applied to determine the cost of comparable care under conditions of disarmament, the contribution to social overhead becomes \$755,hhh.000.

II. WELFARE SERVICES

Military costs for general welfare are many and varied; activities include major programs for the education and training of individuals; religious, morale, and Chaplain services; supply support to

^{80.} S. Congress, House, Committee on Appropriations, Military Construction Appropriations for 1963, Hearings before a Subcommittee, 87th Congress, 2d Session, printed in two volumes (Washington: Government Printing Office, 1962), Part 1: Department of the Arry; Department of the Navy, pp. 288-289. For testimony on Medicare, see also House Appropriations Hearings, Part 3, p. 92, and Senate Approtions Hearings, p. 499.

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TABLE X

MILITARY MEDICAL SERVICES AND COMPARABLE CIVILIAN COST

Married Sect Adoption to September 2017 The Rose State Control of the September 2017

Service	Amount	Page*
Army Medical Activities	5754,900,000	3
Navy Medical Care	98,900,000	21:6
USAF Medical Support	168,300,000	390
Air National Guard Medical Support	573,000	593
Aerospace .edical Center	4,000,000	410
Total Military Cost	\$436,673,000	
Civilian Cost Factor	1.73	destine.
Comparable Civilian Cost	\$755,141,290	
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House Appropriations Hearings, Part 3: "Operation and daintenance."

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provide for food, clothing, housing, storekeeping, disbursing, and so forth; and miscellaneous services almost too numerous and varied to itemize.

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Education and Training of Individuals

Personal education of individuals, as opposed to the operational training of military units, is provided by the armed forces across a the mile been to propagate a sulfare arriving on stational broad spectrum, nearly all of which is normal social overhead. It includes the complete college educations provided by the service academies, And the State of the late of t and subsidies through various ROTC programs to assist other young men in attaining a college education. It includes an expanding program of postgraduate studies of all varieties at both service and civilian institutions, in sciences and humanities, engineering, business and personnel administration, and medical fields. While the courses of instruction at the academies and colleges, and some of the postgraduate courses, include some purely military activity and are clearly intended to benefit the armed services in the long run, the benefit sought is not specifically in the nature of superior soldiers, sailors, or airmen, but of superior citizens whose general service and careers will benefit from broader intellectual achievement. the first terminal and the second statements of the second statements.

Job training of individuals is more specifically designed for immediate benefits to the armed services in the form of skills required in the operation and maintenance of military equipments. Like education, however, training in electronics, welding, communications, mechanics, baking, and so forth, invariably contributes to an individual's value to the armed forces in competing with private industry for the career

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services of the men the armed forces educate and train. The job skills needed in military activity are the same as those required in the civilian society; the difference is that, under conditions of disarmament, all such skills could be applied to television instead of radar, plumbing instead of aircraft hydraulies, automobiles instead of tanks, and so on. But training to develop those skills would still be required. Two industries which appear to rely heavily on military training are electronics trades, and civil aviation. Electronics ratings are invariably the most difficult for the services to retain. Similarly, the armed forces must maintain extensive training programs in aviation skills, for both pilots and technicians.

Another significant educational service provided out of Operation and Maintenance funds is the education of military dependents overseas, from kindergarten through high school. The Department of Defense provides both teachers and facilities for the elementary and secondary education of a number of students estimated at 179,648 for fiscal year 1963, at a total cost of some fifty million dollars or \$285 per pupil, considerably cheaper than the comparable service in the civilian economy. This dependent education program has caused considerable comment and criticism in testimony before both houses of Congress. Fitnesses representing the National Education Association have presented comprehensive data to justify their request for a significant increase in funds

⁹ See Senate Appropriations Hearings, p. 183. Air Force Chief of Staff General Letay estimates a training investment in some skills of \$25,000 per man, and a loss to private industry of four out of five.

employed to military solicity on the mean to this implies. The plants of the significant means to this implicate the military solicity on the mean to this implies of the military solicity on the mean of the military of the military of the military of the mean factors of the military of the mean of the mea

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schools, to provide program comparable to U. S. city schools" is \$3k3.35, which yields a civilian cost factor of 1.20 when compared to the \$285 per pupil allotted by the Department of Defense. 10 At the rate recommended by the National Education Association, the comparable civilian cost for dependents education overseas would be more than sixty million dollars.

Another major educational activity supported by Department of with figure at all large expensed but printed uses Defense Operation and Maintenance funds is the Armed Forces Information committee with a produce of the latest of th and Education program. Approximately half the program consists of the NAME OF THE PARTY services offered by the U. S. Armed Forces Institute (UJAFI), fully services being proceed, their, recording and published part company accredited education at the high school and college level for servicemen at a nominal fee. Mr. E. L. Katzenback, Deputy Assistant Jecretary er or the ... To restrate, a make of resident type bother of Defense for Education and Manpower Resources, pointed out in his formation we show he are belief, but we designed with a fact annually testimony on the Armed Forces Information and Education service that the form the ever, for every believe every six on current USAFI courses as of December 31, 1961, consisted of 119,781 active en-The sales we shall a search private of fourteon on rollments in correspondence courses, 140,745 in group study gourses, and 13,706 participating college active enrollments. 11 The remainder of the Information and Education program consists of the Armed Forces Radio and the of the same that the same arranged to the party of the same and the same are the same and the same are th

¹⁵ House Appropriations Hearings, Part 3; budget data p. 91h; discussion pp. 717 ff. Testimony of National Education Association with data cited here, Part 6, pp. 259-260. See also Senate Appropriations Hearings, pp. 1668-1672, and tables following, for NAA testimony; p. 71h for discussion.

¹¹House Appropriations Hearings, Part 3, p. 720. See also Senate Appropriations Hearings, pp. 714-724.

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Television Service, for both education and entertainment of military personnel, at home and abroad.

Total Department of Defense obligations budgeted for the education and training of individuals is summarized in Table XI with other Welfare Services, at a sum total of more than \$600 million.

Other Personnel Services

many of the programs contributing to social overhead in terms of man it is a series of the series of the late of the series the general welfare of military personnel (and others) are of selfthe sale between different transfer and the sales of the evident value irrespective of a need for armed forces. These include dependent housing; commissary stores, post exchanges, and other supply the state of the s activities; sports programs, bands, recreation activities, and Chaplain and it is smalled by the transfer on the strength, it provides that of right time. services; and most of the Department of Defense interdepartmental activities. In addition, a number of welfare type activities are not isolated as such in the budget, but are included with other appropriations items; the Army, for example, includes nearly all its Welfare and Civic services under the single general category of "Operation and Maintenance of Facilities, 12 Other Welfare activities include an Employees' Compensation Fund for civilian employees within the Depart-The same named was the whilling the same of the same tilting ment of Defense (and other government agencies), supervised by the Secretary of Labor under Public Law 86-767, to provide aid in the event of death or injury. Another item proposes new legislation for obligational authority in the amount of \$40,000,000 to provide more realistic per diem payments for food and loagings of traveling military personnel.

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¹²Infra, p. 55.

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Another is a small obligation for the National Board for the Pro-otion of Rifle Practice, which provides facilities and ammunition for civilian shooting clubs and target matches; while this progrem is obviously mimed at possible military applications, it also largely supports a major sports activity in the United States, not only for the enjoyment and benefit of the young people participating, but also as a contribution to national prestige in the Olympic and Pan American Games, and other international competitions. 13 The miscellaneous activities are many. Total Operation and Laintenance obligations for Welfare pervices are summarized in Table XI. With a sum of more than \$800 million for the support of miscellaneous social services added to the \$600 million allotted to education and training of individuals, a grand total of more than one-and-a half billion dollars is obligated to military welfare.

III. CIVIC SERVICES

A good many of the Civic Services funded under the Operation and Maintenance appropriation consist of routine housekeeping requirements little related to the exigencies of military power and preparedness. The Army devotes more than a billion dollars a year to normal living expenses for its personnel, which are budgeted under the catchall appropriation title of "Operation and Laintenance of Facilities Support."

¹³House Appropriations Hearings, Part 6, p. 245: It was noted in the statement to the Appropriations Subcommittee that \$80,270 was allotted to sending an American team to the International Shboting Union World Championships at Cairo, and \$46,400 for the Pan American Games in 1963, for a total of \$126,670 "for the advancement of national prestige."

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COST OF WELFARE SERVICES PROVIDED BY MILITARY OPERATION AND MAINTENANCE FUNDS /in thousands of dollars/

EDUCATION AND TRAINING	OF INDIVI	OTHER MISCELLANEOUS PERSO	NNEL SE	RVICES	
Ticle	Amount	Page*	Title A	mount	Page
ARMY:			ARMY:		
0 & 1 of Schools	\$82,151	14	Personnel Support \$	18,513	113
Military Acade y	5,781	14		65,191	113
School Training	3,628	14		39,800	115
Devices & Pubs	15,083	14	RAVY:		
O & A of Facilities	94,257	24	Welfare & Recreation	3,571	170
Industrial College	1,312	118	Chaplain Corps	841	177
Tuition Assistance	3,747	342+		11,278	177
Reserve ROTC	14,000			12,135	177
NAVY:	4.7,			52,820	302
Officer Training	5,157	174		4,040	307
Enlisted Scientific	- 3-21	T 1		31,812	2113
Education Program	850	174	Training Support	7,781	21.1
Service Schools	2,702	174		13,690	306
Functional Training	2,459	174	USMC:	179070	200
Supporting Programs	4,400	174	Troop Services	1,139	317
0 & at of Property	28,815	175	Family Housing	8,187	357
Reserve Training	9,400	174	Personnel Services	6,917	
Naval Academy	12,685	174	USAF:	0,711	353
IS C:	12,000	414	Lemorial Services	1 21.0	392
	10 163	347		1,342	
Individual Training	19,163	241	ANG Memorial Services	13	595
a con - a a	215 1.00	201.		13,800	394
Air Training Command	215,1120	394		53,655	396
Air University	23,770	394	DOD:	4 4773	125
Air Force Academy	15,103	394	Asst SecDef (hanpower)	1,173	615
Air Staff	1,80	394	Defense Supply Agey 1		74
Logistics Command	710	394	Support Activities	1,774	617
			IntraDept Activities	226	622
Armed Forces Informatio		mal	InterDept Activities	473	691
and Education Service	8,874	70L	Non-Profit Contracts	6,115	732
lease of the Jensey was a			Natl Bd for Promotion	-4	
Overseas Dependents			of Rifle Practice	500	128
Education Program:	4		Employees' Comp. Fund	996	656
Military Cost	(49,561)	911	Proposed Per Diem Leg.	40,000	112
Comp. Civ. Cost	61,750		TOTAL \$871,6	15,000	
TOTAL \$631	,697,000			97,000	
		D	emotione and end	Button for - planter	
Total Cost of Welfare	Services	Provi	dea by U&M Funds \$1,500	15,000	

^{*}House Appropriations Hearings, Part). * senate Appropriations Hearings.

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As described in testimony of expenses for two new Army divisions, this general support consists more specifically of the following:

Local Headquarters command administration.

Comprises all activities concerned with local headquarters administration functions such as installation command groups, the operation of dependent schools, finance and accounting services, postal services, preservation of order, and general educational development.

Local Walfare services.

Includes local welfare and morale services such as chaplain activities, troop information, and special services.

Company of the last commence of the special

Local maintenance and management of facilities.

Provides for real property management and such operational services as utilities, fire prevention, buildings and grounds maintenance, and saultation.

Field maintenance.

Provides for field maintenance of troop equipment and installation operating equipment. This service is performed in fixed or semimobile shops and is generally confined to repair and replacement of unserviceable parts and assemblies of equipment to be returned to the user, station, or maintenance float.

Local logistic services.

Provides supply, communication and pictorial, transportation, and quartermaster specialized services such as post supply, communications, movement services, and the operation of commissaries, bakeries, laundries, and food-processing facilities. 14

Since the other services list many of their welfare costs separate from such housekeeping expenses, the funds they budget for "operation and Maintenance of Facilities" are considerably less than those of the Army, and may be considered more strictly Civic expenses.

The Army National Guard Operation and Maintenance appropriation (less certain expenditures budgeted for air defense) is considered a Civic

¹⁴ House Appropriations Hearings, Part 3, p. 41.

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cost in its entirety, since the National Guard's domestic peace-keeping function 15 would be little affected by disarrament.

Another area of significant Civic obligation is the support of flying performed by the armed forces which is not strictly military in nature. It can be demonstrated (see Chapter IV: Procurement) that some 21.1 per cent of military flying results from the requirements of social overhead, for such missions as Search and Rescue, Hurricane and Weather Reconnaissance, Charting and Aerial Photography, and the routine transportation of both passengers and cargo. The Operation and Maintenance Costs to support this administrative flying are considerable.

The scope and variety of miscellaneous minor contributions to
Civic social overhead vying for Operation and Laintenance funds is so
comprehensive as to defy complete or orderly identification. As noted
with respect to Army Operation and Maintenance of Facilities Support,
variations in budgetary procedure and appropriations language among the
individual armed forces complicate the attempt to isolate total Depart
ment of Defense obligations by arbitrary categories. However, a number
of specific programs may be identified. Examples are the Navy's operation and administration of the Petroleum and Oil Shale Reserves,
contributions to the infrastructure program of the North Atlantic Treaty
Organization (for projects such as airfields, docks, and pipelines which
are built for military contingencies should an emergency develop in
Europe, but are available to the host country for normal operations in

¹⁵ supra, pp. 15-16.

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the meantime), and construction and Civil Engineer support; Air Force support for the Military Air Transport Service, discussed more fully in Chapter IV; and the Army's expenses in handling the Alaska Communications lystem, the Alaskan telephone network which was built originally by and for the armed forces, but which is gradually being turned over to civilian control for the normal use of the civilian community in Alaska; hours a host of other minor miscellaneous programs sponsored by the armed services and Department of Defense agencies. Table XII is a summary of the identifiable obligations for Civic Services funded by the Defense Department under Operation and Maintenance, at a total sum of some two-and-a-half billion dollars.

IV. TECHNICAL SERVICES

Like Operation and Maintenance in other categories, support of Technical Ervices includes a variety of programs, including such major activities as the Army's Mapping and Geodesy Ervice, and the Air Force's weather, chart, and flight service systems. Also included are portions of the support for two major programs of exploitation, one the national Oceanographic program and the other the work in Antarctica. 16 Most of the technical activities of the Department of Defense are funded elsewhere in the budget, primarily under "Research, Development, Test, and Evaluation" (see Chapter V), so that the Operation and Maintenance

Appropriations Huarings, Part 3, pp. 335-339; for the program in Antarctica see Senate Appropriations Hearings, pp. 527-533.

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TABLE XII

COST OF CIVIC SERVICES PROVIDED BY MILITARY OPERATION AND MAINTENANCE FUNDS

Title	Amount	Paye*
AR.Y:		
O & ! of Facilities		
Operating Forces	\$ 786,700,000	16
Supply Activities	222,159,000	68
Overhaul Activities	1,002,000	69
Army-wi a Activities	56,851,000	111
Joint Projects	10,855,000	116
Alaska Communications System	6,900,000	136
Washington, D. C. Support	1,857,000	119
MAVY:		
Station 0 & A		
Weapons and Facilities	289,815,000	182
Fleet Support Facilities	111,456,000	21.2
MSTS and Coast Guard Support	19,080,000	21.0
NATO Infrastructure Contributions	1,049,000	185, 307
Civil Engineering Support	86,680,000	177
Judge Advocate General	918,000	320
Contingencies	5,929,000	320
Petroleum and Oil Shale Reserves	3,000,000	320
U.SMC:	110,000	
Station 0 & M	64,764,000	347
Depot O & N	25,428,000	349
usaf:		
Installation Support	113,222,000	394
Base O & M, MATS	112,756,000	396
Air Chart and Information Service	30,681,000	396
DOD:		
Court of Military Appeals	L55,000	891
Claims	19,000,000	900
Contingencies	15,000,000	904
Electronics Resources Program	341,000	623
Management Information Studies	250,000	625
Reserves for New Projects	114,000	696
Acministrative Flying Support:		
USAF: 21.1% of \$1,114,389,000	235,136,000	392
NAVY: 21.1% of 187,384,000	39,538,000	180
Army National Guard	146,100,000	14,1+
TOTAL	\$2,107,039,000	
i UIML	\$2,401,000,000	

^{*}House Appropriations Hearings, Part 3. *Ibid., Part o.

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contribution to social overhead is considerably smaller in terms of Technical Services than in other areas, as indicated in Table XIII.

Technical activities are summarized in Table XIII at a total of approximately \$130 million.

COST OF TECHNICAL SERVICES PROVIDED BY MILITARY
OPERATION AND MAINTENANCE FUNDS

TABLE XIII

Title	Amount	Page*
ARW: Mapping and Geodesy Service	\$ 45,300,000	114
NAVY: Office of Naval Research Support	9,649,000	320
USAF: Weather Service	6,828,000	397
Flight Service System	1,690,000	397
FAA Inspection of Navigation Aids	700,000	206
DDD: Office of Director of Defense		
Research and Engineering	8,435,000	611
Coordination of Antarctic Program	116,000	624
Federal Radiation Council	8,000	694
National Oceanographic Program	57,100,000	335
TOTAL	L \$107,026,000	
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^{*}House Appropriations Hearings, Part 3.

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V. SUAMARY

The commitment of the Department of Defense to responsibilities for social overhead budgeted under the Operation and Maintenance appropriation is summarized in Table XIV. Of the total New Obligational Authority of \$11,868,800,000 requested for Operation and Maintenance of Defense Department activities, not quite half is devoted to the support of programs and activities for which funds would have to be made available in the U. 5. economy irrespective of the requirements of military power or disarmament, including such major items as medical care, education and training, general welfare, and routine housekeeping. The total of \$1,795,621,000 for social services includes the fact that some of these services are more expensive under conditions of disarmament, i.e., as available on the civilian market.

TABLE XIV

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COMPARABLE COST TO THE U.S. ECONOMY OF SOCIAL SERVICES
BUDGETED BY THE DEPARTMENT OF DIFENSE
AS OPERATION AND MAINTENANCE

medical Services	\$ 755,444,000
Welfare Ervices Education and Training Other Personnel Services	631,697,000 871,615,000
Civic Bervices Housekeeping Administrative Flying Miscellaneous Bervices	1,795,008,000 274,674,000 337,357,000
Technical ervices TOTAL	129,826,300

PARTY I

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CHAPTER IV

PROCURLIANT

The functional category of the Department of Defense budget for fiscal year 1963 to which most of the defense funds are obligated is titled "Procurement." It is also the component of the budget in which the cost of military power is most impressively demonstrated. The weapons systems of modern warfare are incredibly expensive, and have consumed an ever-increasing portion of the Defense budget over the years. In addition, the current political problems of subversion and guerilla warfare have resulted in a build-up of conventional forces, adding considerably to the cost of military Procurement, amounting this year to a total of \$16,445,000,000.

There are a number of items, however, which must be purchased by the armed forces under this allotment to provide for social overhead.

Listed under General Support on the armed forces' shopping lists are literally millions of items such as medical and dental supplies, civil engineering equipment, shoes, stoves, refrigerators, ambulances, and many other items which the economy would be required to provide even if disarmament should relieve it of the require int to provide weapons and amount items.

Procurement funds are budgeted by the Army, Navy (which also handles Marine Corps Procurement), Air Force, and Defense Agencies within the following general categories: 1

¹For Congressional consideration of Defense-wide producement, see

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I. AIRCRAFT

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The great majority of aircraft purchased for the armed forces are purely military in nature: interceptors, bombers, tankers, close air the second of white point of section support craft, and the like. Cargo and transport aircraft (and many C. D. WHILDRAM SHE MALEY, W. patrol aircraft) fulfill a dual purpose. On the one hand, they con-I THE PERSON IN PROPERTY AND ADDRESS OF THE PERSON OF THE tribute to the military prowess of the United States by enhancing the and the same and the same and the mobility of troops and performing other military tasks; on the other, they provide such social services as search and rescue; hurricane tracking and weather reconnaissance; mapping and aerial photography, special transportation for the President, other high officials, and overseas U. 5. Embassies; routine passenger and cargo transportation for thousands Lancier LOLD : - 10 h of military personnel and their dependents, and tons of equipment and cargo, including U. S. Airmail; and such periodic special missions as earthquake and disaster relief, and support of United Nations operations in the Congo. In addition, a small number of unique special air test vehicles contribute to scientific advancement in aeronautical research and development. Less obvious are the contributions military aircraft procurement akes to aviation in general, civil and military, in terms of providing training aircraft and prototypes, and in terms of decreased overall costs of aircraft resulting from program expension.

House Appropriations Hearings, Part 2. For consideration of budget requests of the individual services, see Part 4: "Procure ent."

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Admiral P. D. Stroop, Chief of the Bureau of Naval Weapons, noted in his testimony before the House Subcommittee, for example, that if both Air Force and Navy were to buy a certain type of airplane, instead of just the Navy alone, it would reduce the unit price for the craft by \$25,,000. Hitch and McKean, in their authoritative work on the conomics of defense, note a smillar effect on the civilian economy, not only in aircraft procurement, but with ships as well:

The purchase of airplanes and ships, by increasing the scale of operations in these industries, makes it possible for airlines and shipping companies to get their equipment at lower cost. This happens because shipbuilding and aircraft manufacturing are "decreasing cost" industries over the relevant range of output. Within this range, the larger the output of a particular model, the lower its unit cost; and the larger the scale of operations in general, the cheaper certain inputs are for any additional models.

Significant as this contribution may be, no meaningful statistics are available whereby a realistic civilian cost factor could be computed for overall aircraft procurement. Lacking this, estimates of the lasting social value in the event of disarmament of aircraft presently military can only be approximated in terms of actual aircraft costs as budgeted by the armed forces. The Air Force submits its aircraft requirements in terms of:

- 1. Combat Aircraft
- 2. Airlift Aircraft
 - 3. Trainer Aircraft

²House Appropriations Hearings, Part 4, p. 160.

³Charles J. Hitch and Roland N. Ackean, The Economics of Defense in the Nuclear Age (Cambridge: Harvard University Press, 1960), p. 82.

House Appropriations Hearings, Part 4, p. 316.

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- L. Other Aircraft
- 5. Modification of Inservice Aircraft
 - 6. Replenishment Spares and Spare Parts
- 7. Other upport

Aircraft procurement costs which would be obviated by disarmament appear A PERSONAL PROPERTY AND ADDRESS AND THE largely in the first two categories, Combat and Airlift aircraft, along the elaborate or whitewith a share of modifications, spare parts, and support in the last three categories, a total area in which nearly ninety per cent of the funds are obligated. The Other Aircraft category consists of light planes, helicopters, and special configurations. Trainer Aircraft, comprising category number three, certainly contribute significantly to the military power of the United States in the long run, but by the same token contribute significantly to the entire field of civil aviation in the long run by providing the training for the great number of military pilots who find career in commercial civil aviation upon completion of their obligated military service; if disarmament should obviate the training function of the lilitary establishment, it seems likely that the cost of training aircraft would have to be supplied elsewhere in the economy for U. 3. civil aviation to continue to prosper. Similarly, even the Airlift category, which is largely military, makes a significant contribution to the civilian economy as well. Lieutenant General J. W. Kelly, Commander of the military Air Transport Service (mAF), responsible for military airlift, described the MATS mission in his statement to the Congress. Along with the purely military functions of troop mobility and missile program support, he notes MATS centributions to such programs as Project hercury, the manned space flight program, and Operation Deep Freeze, the mission in Antarctica, and concludes:

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Rescue, and Photographic and Charting, fly specialized missions supporting Department of Defense activities. Weather reconnaissance flights provide important weather data for Air Force tactical operations as well as supporting specialized projects of NAJA. Air Rescue responds not only to military requirements but wherever and whenever mercy missions are required. Our Photographic and Charting Jervice provides accurate mapping detail not only to the military, to other U. S. Government agencies, but also to our allies. Typical are recent surveys being provided to our sister nations in South America—Colombia and Peru. 5

tion from \$1,750,000 or the ten from the law of March

General Kelly, in discussing the MATS airlift mission, projects into fiscal year 1963 his estimate that approximately forty per cent of the MATS flying effort will be committed to routine logistic support.

Totaling forty per cent of the cost of Airlift Aircraft with the cost of Trainer and Other Aircraft, with a prorated portion of modification, spares, and support funds, indicates that approximately twenty per cent (21.1 per cent) of the Total Obligational Authority (TOA) requested by the Air Force for aircraft procurement is devoted to social overhead; in

Mouse Appropriations Hearings, Part J: "operation and laintenance," p. 524. General kelly and General Jerrell, Director of the Air Force Budget, discuss the AT; airlift program with the House kibco.mittee in considerable detail, including use of civil aircraft, cost of Con o operations, missions and types of aircraft, etc. See also U. S. Congress, Senate, Committee on Armed Services, Military Procurement Authorization, Fiscal Year 1963, Hearings before the committee, 87th Congress, 2d Jession, on S. 2734 (Washington: Government Printing office, 1962); p. 131 cites twelve Air Force "B-50's and thirteen WV's, Navy Lockheed Constellations -- all multimillion dollar aircraft -- involved in weather operations; ibid, p. 151 cites the purchase of three "special mission" C-135's--the military equivalent of the Boeing 707 jet transport--for VIP fli hts, with a fourth on order. Drew Pearson, in his syndicated column for July 27, 1962 ("The Washington Merry-Go-Round: Jackie Kennedy's Danser Up," The Washington Post, p. C23) claims in his customary flamboyant style that the Air Force maintains 719 such "special dission" aircraft, and the Navy 117, citing Representative Flood of Pennsylvania as his source.

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terms of budgeted New Obligational Authority (NOA) the figure is \$661,485,000. Comparable figures for the Army and Navy (including Marine Corps) aircraft procurement requests are \$15,998,000, and \$150,185,000 respectively. In addition, Secretary Hitch has indicated that some \$66 million will be obligated to "provide spares and modifications for aircraft assigned to the support of the research and development program. For a total \$1,223,968,000 in the procurement of aircraft obligated to social overhead.

II. MISBLES

More than four billion dollars is obligated to the purchase of missiles of all types by the armed forces, from mighty intercontinental boosters to small air-to-air rockets. Nearly all of this requirement is military in nature. While some of the missiles purchased under this category are used eventually in scientific space exploration, the armed services which provide such rockets to the National Aeronautics and Space Administration are only reimbursed by NASA, resulting in no net expenditure charged to the Department of Defense. Like aircraft and ships procurement, the military missiles program unquestionably contributes significantly to the overall scientific space program of the

⁶House Appropriations Hearings, Part 2; Table 1h accompanying Comptroller Hitch's presentation to the Congress (facing p. 294) lists NOA for aircraft for each service, from which these figures were computed. It was necessary to compute the percentage in terms of TOA because the Air Force breakdown by type aircraft was presented in TOA to the Congress; see Part 1, p. 316. The total obligation for the Air Force amounts to \$608,191,000, which interpolates to the figure quoted here when converted to NOA.

⁷Ibia., Part 2, p. 201.

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United States but the contribution cannot be realistically isolated for consideration under conditions of disarmament. The single space program funded entirely by the armed forces and identifiable as a social contribution is the Navy's TRANSIT program for a navigational satellite, for which \$11,300,000 of the Procurement funds is obligated in 1963.

III. SHIPS

The 1963 Ship Construction and Conversion program, funded at nearly three billion dollars, includes obligations for the purchase of thirty-seven new vessels, ranging in size from aircraft carrier to gunboat, as well as major conversion of thirty-five others. Of these, three new vessels and two converted ones fulfill functions only incidentally military: Secretary Hitch notes an obligation of \$58 million under this allotment "to construct two oceanographic research ships and one surveying ship, and to convert two technical research ships." In addition to this specifically social investment, the Navy, in all of its hips, provides homes--literally--for more than a hundred thousand

Indeed, major U. S. Naval vessels are self-contained floatincluding utilities, stores, hospital and dental

"ice, churches, and so forth, sufficient to sustain
to four thousand in number, on deployments



earings, Part 2, p. 282. See also Senate

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United States but the contribution cannot be realistically isolated for consideration under conditions of disarmament. The single space program funded entirely by the armed forces and identifiable as a social contribution is the Navy's TRANSIT program for a navigational satellite, for which \$14,300,000 of the Procurement funds is obligated in 1963.

III. SHIPS

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House Appropriations Hearings, Part 2, p. 282. See also Senate Appropriations Hearings, p. 779.

⁹¹bid., p. 282.

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which may last up to nine months. If disarmament were to boviate a sea-going Navy, the economy would have to provide alternative living accommodations for the citizens presently comprising that Navy.

It is virtually impossible to isolate, in the cost of a newlyconstructed ship, just how such steel and expertise has been devoted to the necessities of housekeeping, and how much of it has been expended in providing the accounterments of military power. Experts in the Navy Department's Bureau of Ships will not even try. An accurate estimate can be made, however, from the comparable cost to the Navy of constructing 'APL' bar es, which are designed solely for berthing and messing of personnel, and often include other social and recreational facilities such as stores, libraries, or barber shops. These vessels contain no armament, no source of propulsion, nor any navigational, electronic, or operational equipment; they are solely floating barracks, designed for use as temporary living quarters where facilities ashore are not available. The hypothetical cost to the Navy of a number of APL's sufficient to house the crews of the new vessels funded for construction should approximate the portion of the total cost of those new vessels which has been expended in the social requirement to provide living accommodations for the number of citizens employed in their crews. The total complement of personnel to be housed aboard the thirty-seven new vessels included in the 1963 budget, 10 as supplied by the Office of the Chief of

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¹⁰The ships are listed in dbid., p. 293, Table 12 of Secretary Hitch's statement. See also Admiral Griffin's statement, Senate Appropriations Hearings, pp. 787-789.

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Maval Operations, is approximately eleven thousand (10,993). APL's are designed to accommodate a maximum of 686 persons; except in extraordinary circumstances, however, they are normally limited to 350 to 400 personnel for comfort and habitability. At a median number of five hundred men per APL, and an average cost of four million dollars per APL, the comparable cost of housing the craws of new construction vessels comes to approximately eighty-eight million dollars. This, then, is an indication of the cost of building into new warships the normal habitability requirements of social overhead.

IV. OTHER PROCURE ENT

The general category of Other Procurement provides for the purchase of literally millions of items of every conceivable nature, for a total obligation of \$3,964,000,000. The great bulk of this obligation is applied to the procurement of items of military value only. A significant sum, however, applies to the purchase of supplies required by social overhead. Unfortunately for purposes of analysis, the armed forces' itemized shopping lists are classified, hence not available for public item-by-item investigation. Procurement costs, however, are discussed in general categories by each of the armed services to its justifications before the Appropriations Subcommittees, and Comptroller

llData on APLis from the Ships Division of the Design, Ship-building and Fleet Maintenance Branch of the Bureau of Slips of the U.S. Navy Department. APL costs vary somewhat with builder and modifications; in addition, none have been constructed in more than ten years, so that actual past costs were converted by the Bureau of Ships into 1963 prices for a more accurate approximation of current costs.

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Hitch in his presentation of the budget to Congress summarizes in sufficient detail to determine a reasonably accurate division of procurement costs by military and social value.

The great bulk of Other Procurement is obligated to items of military value only: ground equipment for bombers and missiles, bomb to have an excitated of the Separate of Indiana. alarm, air defense, and submarine detection systems, and a huge allotment of more than two and a half billion dollars for General Purpose that of a Latest March Control of Control of Forces, including ammunition, small arms, artillery, combat vehicles for market, not the his lighter between he would be the Army; torpedoes, anti-submarine equip ent, communications, bombs, HOREL PRINTING WHITE MICHAEL NOVEMBER 1000 small arms, ammunition and combat vehicles for the Mavy and Harine Corps: For shirt your court was to so men medical to be by a manager and for the Air Force, bombs, ammunition, ground support, and communicathe polymers of all the polymers of all the polymers of all the tions and electronics equipment. 12 All these requirements, and others of similar military value, are emphasized in the testimony of both civilian and military officials presenting justifications for the armed services' requests. Far smaller, but still significant amounts are included for such items as non-combat support vehicles -- sedans, ambulances, fire trucks, etc .-- civil engineering and construction equipment, training supplies, medical equipment and supplies, and support items for research and development programs. Hitch concludes his summary of overall Department of Defense Other Procurement requirements with two categories of primary social value:

(6) Research and development: \$46 million to provide support for the research and development programs, including such items as administrative vehicles, comion supply items, etc.

Appropriations Hearings, Part 2, p. 282; also Renate Appropriations Hearings, p. 117.

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(7) General Support: \$745 million for a variety of equipment and material, including communications and intelligence equipment, support-type vehicles, training aids and equipment, materials handling equipment, and medical supplies.13

V. SUMMARY

The commitment to social overhead of the Department of Defense for fiscal year 1963 budgeted under the Procurement appropriation is summarized in Table XV. Out of a total New Obligational Authority of \$16,h45,000,000 requested, more than two billion dollars is devoted to the purchase of Aircraft, Missiles, Ships, and Other Procurement items for which funds would have to be made available in the U.S. economy irrespective of the requirements of military power or disarmament.

TABLE XV

COMPARABLE COST TO THE U. S. ECONOMY OF SOCIAL OVERHEAD ITEMS BUDGLIED FOR PROCUREMENT BY THE DEPARTMENT OF DEFENSE

A 3 - OL				
Aircraft			1 4 005 000	
Army		\$	45,998,000	
Navy			450,485,000	
Air Force			661,485,000	
R & D Support			66,000,000	
Missiles			14,300,000	
Ships				
Technical and Research	h Ships		58,000,000	
Quarters in Warships			88,000,000	
Other Procurement			a demand on the	
R & D Support			cco, ccc, 64	
General Support			745,000,000	
and the same of th	TOTAL	\$2	,175,268,000	
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¹³Ibid.

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CHAPTER V

RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

for the course a course of the Department of Defense funds obligated to Research, Development, WE SPECIFICATE TO SERVE AND SECURIOR AND SECURIOR AS THE Test, and Evaluation (RDT&E, or, more commonly, R&D) constitute, almost entirely, a highly desirable contribution to social overhead in the take armed, that here class-providing the basedon. amount of \$6,8k3,000,000. While the purchase, stockpiling, operation, Designed Artists Education At the Device Section of the or and maintenance of wcapons and equipments may prove to be an economic waste which could be obviated by disarmament, investigation of their components, principles of operation, behavior, power, technical feasi-I may it supported by buryant blee type to bility, and so forth, is not. Any endeavor which advances the sum total of human knowledge and experience can contribute to the welfare of mankind, irrespective of its source, and in spite of the intent of the sponsor. Research and development funded by the Department of Defense is unquestionably aimed at enhancing the military power of the United ACTIVITIES AND INCIDENT DOWN States. At the same time, however, it results in what Hitch and McKean, in their Economics of Defense in the Nuclear Age, call "spillover benefits to private sectors of the economy." Since, by the nature of the task, scientists engaged in R&D are not ever sure what they may learn or develop, scientific work sponsored by the Department of Defense for military purposes almost invariably leads off into areas of great the love party, simulating that models in beauty non-military significanct. Hitch and McKean comment on this dust yield of military expenditures for research and development as follows:

Charles J. Hitch and Roland N. McKean, The Economics of Defense in the Nuclear Age (Cambridge: Harvard University Press, 1960), p. 01.

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Treats and Symbolish collins or over a security bull continues, about will be to the control of the contro and the top of the lowest prestrong of a little accompany of the December of "Therefore we had not aware your efforced by his alterprise by accommendate him which to make the way the same to yo putally a of himse of him about - train Lepholica, of the conference of apprehiment and the conference of the confer birthy one as swith, is not, any entirest with a svences that our bottle when the working also an administrate has according to a position of many in blad, lettermerkive of the source, and in spite of the latent of the Specially Household and service plants. Smile by the Separates of Selection in community will be asset constituted by all the college of the builttheres. At the same then becomes it remains to sent disch and same, In this years the of Jahren, he has Bellevy Apr. carl Perliamer to readen and but come "Appearance will be problem absolute of additioned the tast, networked to make the loss and course the tast and bearing as consumpy assumed to several and the consumer of particles of particles and particles are present as name to amore used the many quadratical frames emproys tradition relmany along all of the control or course or course or a fall of the course of the cours of elitting a committee and a vessely on a fellower as fellower.

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Perhaps the most important of these indirect gains, however, are the spillover benefits from military research and development. Some of these benefits are obvious. The development of a good transport plane for the military can lead directly to improved civil aviation. Some of the indirect benefits are less obvious. For instance, a Crane Company official has pointed out: "What were once government specials are now standard products, such as the chlorine valves we originally developed for checital warfare." New ideas resulting from research are likely to have numerous and unforeseen applications. Military research and development led to such items as silicon transitors /transistors/, improved antimotion-sickness drugs, and new flame-proofing for Mabrics. Special rockets may be useful as emergency brakes for trucks. Even the immense costs incurred in the development of the atomic bomb may eventually prove worthwhile on strictly nomilitary grounds. Knowledge of space will no doubt provide nonmilitary gains that cannot at present be foreseen.

For budgetary purposes, the Research, Development, Test, and Evaluation appropriation is subdivided into eight general fields, plus an emergency fund:

Military Sciences
Aircraft and Related Equipment
Missiles and Related Equipment
Military Astronautics and Related Equipment
Ships and Small Craft and Related Equipment
Ordnance, Combat Vehicles, and Related Equipment
Other Equipment
Programwide Management and Support

Curiously, that field of research and development subsumed under the title of military Sciences is the least military of all. It is concerned with "basic research in the life, physical, and social sciences

^{2&}lt;sub>Ibid.</sub>, pp. 62-83.

³For Congressional con ideration of RDT&E see House Appropriations Hearings, Part 5: "Research, Development, Test, and Evaluation"; and Senate Appropriations Hearings, pp. 951-1135.

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The Aircraft ALD category yields more immediate military power, and in the long run is also responsible for major advances in civil aviation, which private companies frankly admit they cannot afford without government contracts. For example, the Defense budget for fiscal year 1963 includes funds—sixty—eight million dollars—for the development of a supersonic jet transport aircraft, the C-lhl. The Air Force, in its testimony on the development of the C-lhl, emphasized its close cooperation with the Federal Aviation Agency, the airlines, and the aircraft industry toward eventual compatability of the C-lhl with civil aviation. Another project is attempting to develop a transport aircraft able to take off and land vertically, which could have inestimable value to

House Appropriations Hearings, Part 5, p. 4.

⁵ House Appropriations Hearings, Part 4, p. 346-347.

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civil aviation. Similarly, a Navy project to develop a new type engine for anti-submarine aircraft is directly applicable to civil aviation, as demonstrated by an exchange between Rear Admiral P. D. Stroop, Chief of the Bureau of Naval Weapons, and Representative R. L. F. Sikes of Florida, in testimony on engine procurement:

Rr. SIRES. To what extent are these engines used for non-military purposes?

Admiral STROOP. I think every engine we use in a Navy aircraft is also used in a commercial aircraft. I might say that the development in the engine business is supported as a joint effort by commercial users and the Government.

Mr. SIKES. Is this program and a similar program for the Air Force really a development program for the entire aircraft incustry of the Nation?

Addiral STROOP. Yes, sir; not only for the service type aircraft, but also for the commercial aircraft.

Even aircraft development and testing which is specifically military in nature, such as the current exploits of the X-15, yield general aeronautical knowledge and experience of value to the entire scientific and engineering community.

Expenditures for dissiles and Relater Equipment, along with activities funded under Military Astronautics, have been largely responsible for the progress of the U.S. space program. Buth of the expense and effort has been aimed specifically at accumulating military power. Simultaneously, however, the space program, with its requirements for miniaturization, rapid computation, and extreme accuracy, has spawned a

⁶Ibid., p. 193.

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whole new civilian industry producing computers, transistors, and other semi-conductor devices of inestimable non-military value. The same booster rockets designed to deliver warheads, and the same incredibly accurate (and expensive) systems designed to guide them, have lofted research and communications satellites, like the current TELSTAR vehicle, into orbit, as well as the astronauts. A whole new field of aerospace medicine has developed. In spite of the Fact that Congressmen, among others, periodically insist on military applications of the space program, it seems evident that space exploration, like the nominally military national programs for Antarctica and oceanography, is no less a contribution to the advancement of human progress than the endeavors of Copernicus, Columbus, or the Wright brothers.

The Ships and Small Craft category of military R&D for fiscal year 1963 will fund, among other things, advanced development of a hydrofoil craft which may revolutionize not only a number of military missions, but civilian water transportation as well. The will also provide for work in communications, sonar, and radar. A significant part of the research and development effort of the Naval Electronics Laboratory and David Taylor Model Basin is funded under this activity.

Even Ordnance, Combat Vehicles, and Related Equipment, despite its bellicose title, is a category yielding eventual value to the civilian community. In addition to work with explosives and small arms, this category provides for the development and testing of trucks, and

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⁷ See "Hydrofoil Ship Faces Ocean Test," news item in The Washington Post, June 11, 1962.

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amphibious and automotive vehicles. One exotic vehicle claiming funds in fiscal year 1963 is the ground effect "air cushion" machine, which could conceivably prove as valuable to military power and as revolutionary to the civilian community as the automobile.

Other Equipments investigated and tested at the expense of the Department of Defense are many and varied: an infra-red device for seeing in the dark, various electronics systems, photographic equipments, communications machines and techniques, and obstacle crossing equipments are examples. Buth of the support of the research and development effort of the Air Force's Lincoln Laboratories and the Army's Signal Research and Development Laboratory is provided under this activity.

Just as significant in its eventual value to the United States, though perhaps not quite so obvious, is the contribution that the Defense Department's RDT&E program makes to the scientific community of American colleges and universities. A significant proportion of Defense research is contracted out to various technical institutions, where the funds and projects provide sustenance and inspiration not only for established scientists, but for the young men who are their students. Hitch and .ckean point out:

The defense program gives a fillip to investment in education in still another way. The increased demand for scientists, engineers, electronics experts, and skilled technicians, stemming from both military operations and military research and development, is causing extra investment in scientific skills. In all likelihood, this investment will prove to be a profitable one from the stancpoint of the whole economy (as well as that of the individuals). Even if the military's demand for these skills subsides, this scientific training and experience will be valuable to the nation.

SHitch and . ckean, op. cit., p. 82.

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Disarmament would undoubtedly result in a shift of emphasis and revision of research projects now in the area which is the responsibility of the Department of Defense. In magnitude and general nature, however, the requirement for funds for Research, Development, Test, and Evaluation would, if anything, increase for the benefit of the scientific community, and in the long run, the general welfare of all mankind.

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CHAPTER VI

SEPARATE APPROPRIATIONS

The main body of the Defense budget consists of the functional categories discussed in the preceding chapters: Military Personnel;

Operation and Maintenance; Procurement; and Research, Development, Test and Evaluation; amounting to some forty-eight billion dollars in a single appropriations bill. In addition, the Department of Defense is responsible for three other significant activities for which funds must be provided: Military Construction, Military Assistance and certain Civil functions.

I. MILITARY CONSTRUCTION

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The budgeting of funds for the construction of Department of Defense buildings and facilities is a separate procedure in the appropriations process. An individual authorization request, and an individual appropriations bill have been submitted for fiscal year 1963, to provide \$1,318,000,000 in Military Construction for projects ranging all the way from sewage disposal plants to missile silos, in locations all over the world. Hearings separate from those held before the House

which are not proposed proposed by the proposed proposed by the proposed pr

¹ See U. S. Congress, House, Committee on Armed Services, Military Construction Authorization, Fiscal Year, 1963, Hearings before the Committee, 87th Congress, 2d Session, pursuant to H. R. 10202 and H. R. 11131, March 5-April 9, 1962 (Washington: Government Printing Office, 1962). See also U. S. Congress, Senate, Committee on Armed Services, Military Construction Authorization, Fiscal Year 1963, Hearings before the Military Construction Subcommittee, 87th Congress, 2d Session, on S. 2841 (H. R. 11131), March 28-April 2, 1962 (Washington: Government Printing Office, 1962).

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Subcommittee on Department of Defense Appropriations have been held before a distinct Subcommittee on Military Construction of the Committee on Appropriations. Construction is similarly divorced from other Defense appropriations in the Senate. As might be expected, considerable political interest in construction expenditures is evident within the Congress.

The greatest share of Construction funds is obligated by the Air Force—some \$812,000,000—and the bulk of this is for ballistic missile facilities. Approximately two-thirds of all funds obligated to Military Construction contribute primarily to military power, in terms of missile sites, warship facilities, weapons support, and the like. It is not altogether accurate to consider such expenditures totally military, since land purchased for military construction is not lost to the economy, and could revert to civilian use in the event of disarmament. However, its use by the civilian sector is obviously restricted if it is occupied by a missile silo or terget lange, hence for purpose of analysis must be considered a military expenditure. Similarly, many of the buildings constructed for military purposes could be put to civil use in the event of disarmament, but only as a makeshift.

There are a number of items provided under Military Construction which are obviously of primary social value: such projects as hospitals

²U. S. Congress, House, Committee on Appropriations, Military Construction Appropriations for 1963, Hearings before the Subcommittee on Military Construction, 67th Congress, 2d Session, printed in two volumes (Washington: Government Printing Office, 1962), (heseafter cited as Construction Hearings).

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and schools. Other items funded serve a dual purpose, benefiting both the status of U. S. military power, and the social welfare of the local community; such projects as roads and airports, which are used by both civilians and the military, Perhaps the most clear-cut example of this dual role is the product of National Guard and Reserve construction:

". . . the Guard armory is often a town's most impressive edifice, and a social mecca of food sales, high school graduations, civic meetings and basketball games."

In the detailed justifications of construction funds requested of Congress by the armed services, major individual building projects are separately identified, by function, price, and geographical location.

Congress also requires that the separate portion of the total cost of each major project which is devoted to architecture, engineering, and design be isolated and identified. These total planning costs comprise a separate budget category. In addition, a catch-all allotment for each of the armed forces entitled "Minor Construction" is included

. . . to provide for construction of new facilities, alteration of and additions to existing facilities, and conversion of existing facilities which are not specifically authorized by law or included in pending authorization legislation, which are determined to be urgently required, and which do not exceed \$200,000 in cost for a single project.

All three of these categories--major construction, design costs, and minor construction--have been analyzed in detail as presented to Congress

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³The Home-Town Troops," Time, Vol. LXXX, No. 2 (July 13, 1962), p. 13.

^{**}Construction Hearings, Part 2: "Department of the Air Force; Defense Agencies; Loran Stations, Defense," p. 418.

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for each of the armed forces, their Reserve and National Guard components, and for the department-wide Defense Agencies, to determine military and social value. 5 Contributions to social overhead funded under Military Construction have been isolated in the same major categories devised for the discussion of Military Personnel costs in Chapter II, consisting of the following:

MEDICAL CONSTRUCTION

Hospitals Clinics Dispensaries

WELFARE CONSTRUCTION CIVIC CONSTRUCTION

Messhalls Chapels Schools

rechnical construction

RDT&E Facilities Laboratories Navigation Facilities

Living Quarters Utilities Roads Recreation Facilities Municipal Airports Stores and Shops Natl Guard and Reserves

It seems apparent that buildings and facilities serving the purposes listed in these four categories comprise construction which it would be necessary or desirable for the U. S. economy to provide in one form or another, disarmament notwithstanding. Proposed construction projects of these types for each of the armed forces and the Department of Defense agencies have been extracted from the hearings on hilitary Construction and listed in Appendix D. Table XVI is a summary of the data listed in Appendix D, indicating the sums to be obligated to Medical, Welfare, Civic, and Technical construction by each of the armed services, with

Since fiscal year 1963 needs for Minor Construction by definition cannot be foreseen at this time, it has been necessary for purposes of analysis to divide Linor Construction costs on the basis of data from previous years provided in the Congressional hearings.

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a total cost to the Department of Defense for fiscal year 1963 of \$135,355,000, approximately one-third of total Military Construction funds.

TABLE XVI

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SUMMARY OF MILITARY CONSTRUCTION PROJECTS REQUIRED BY SOCIAL OVERHAUM /In thousands of dollars/

Construction Category	AR-Y	NAVY+	USAF	DOD Agencies	Category Total
Medical	\$ 16,076	\$ 14,273	\$ 23,940		\$ 54,294
Welfare	39,202	63,654	29,071	604	132,531
Civic	39,083	22,876	41,206	9,505	112,670
Technical	9,916	17,501	85,475	22,968	135,860
Service Total	\$10h,277	118,309	179,672	33,077	\$4,35,355
Total Cast of Project	ts Required	by Social (verhead		\$1,35,355,000

^{*}Gee Appendix D for lists of individual projects by service and source data; all figures are compiled from Construction Hearings.

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^{*}Includes Harine Corps Construction projects.

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II. MILITARY ASSISTANCE

Like Military Construction, the Military Assistance program is not included in the authorization and appropriation process for the bulk of Department of Defense obligations. Authorization for Military Assistance is obtained as a component of the total U. S. foreign aid program, and the appropriation request for New Obligational Authority totaling \$1,500,000,000 is considered apart from the remainder of the Defense bud et by the Congress.

assistance of some sixty-nine other nations are consumed in the procurement of weapons and military equipments, and the training for their operations and maintenance. However, in view of the underdeveloped nature of many of the countries receiving U. S. military aid, Military Assistance also provides significant social services in the form of equipment and training for general administration; in the construction of roads, docks, bridges, and sanitation facilities; and in the installation and operation of communications equipment. While military aid

For discussion of the current authorization bill, see Richard L. Lyons, "\$4.6 Billion Aid Bill Passed by Senate," The Washington Post, June 8, 1962. The timing of Congressional hearings on appropriations has been such that the record of hearings on Military Assistance for fiscal year 1963 was not released in time to provide the reference for this analysis. However, the unclassified version of the detailed data presented in justification of Military Assistance appropriations was printed in pamphlet form: U. S. Department of Defense, International Security Affairs, Division of Military Assistance, Office of the Comptroller, Military Assistance Facts, 1 March 1962. In addition, The Budget of the U. 5. Government, 1963-Appendix includes considerable descriptive data on the Military Assistance portion of the DOD budget.

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is obviously aimed primarily at providing reliable adjuncts to U.S. military power, this can only be accomplished in some areas by raising the entire level of national viability, and even in more advanced areas often requires an across-the-board improvement of expertise in certain basic fields such as public administration, sanitation, transportation, or communications. In those politically unstable nations in which the armed forces constitute the center of power and stability, training and experience in modern military operations, construction, and administration, while admittedly an imperfect alternative, is one of the few avenues available for the development of political sombistication.

Nature of Military Aid

Reservations account for more than half of the Military Assistand the second control for the latter case, the bases has properly in ance funds. Lost of the military equipment and supplies which the United the same discourse concrete by adding the same in States provides to its foreign allies is obtained by placing orders with the first of the said fortilling the present of poors account the U. S. military services. Hilitary Assistance funds are reserved District Control of the Control of t when the orders are placed, and the military services are paid when the procedured to the procedure of the party of the party of items are delivered. Funds are obligated in the following categories:7

Reservations:

- 1. Aircraft
- 3. Tanks, Vehicles, & Weapons
- 5. Missiles
- 6. Electronic Equipment
 - 7. Military Public Works
 - 8. Other

Other Obligations

- 9. Offshore Procurement
- 2. Ships 10. Supply Operations
 - 11. Training
 - 4. Ammunition 12. Administration
 - 13. Headquarters & Agencies
 - 14. Foreign Construction
 - 15. Research & Development
 - 16. Other Activities

this remarks in our purbuly or it Budget of the U. S. Government, 1963--Appendix, pp. 321-329.

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Funds obligated to the purchase of items in the first five categories are entirely military in nature, as indicated by the category titles. Other categories which are largely or entirely military in nature in-CONTRACTOR STATE OF STREET clude: Off-shore procurement, the purchase of military supplies overseas to help allied countries establish a defense production base: Supply operations, the annual cost of packing, handling, storing, and transporting Military Assistance materiel: Contributions to International Military Headquarters and Agencies, the assessments levied against the United States in accordance with cost-sharing agreements for the administrative support of the military headquarters and agencies, including the Standing Group of the North Atlantic Treaty Organization, Southeast Asia Treaty Organization, and the Central Treaty Organization; the record profession from the abilities and those managements Research and Development, limited in this case to work on weapons and make a value in home and with party of the weapons systems of common interest undertaken by allies in certain fields in which their facilities show promise of prompt success; and and opposite the facility of the last of the party of the last of Other Activities, including U. S. support for expanding programs of coordinated weapons production in Europe and integrated NATO procurement of spare parts.

Contributions to social overhead appear in the remaining six categories, as indicated by descriptions in the Budget Appendix:

- 6. Electronic equipment. -- The 1963 program continues the modernization of military communications systems in less-developed countries.
- 7. Military public works.—Materiel and equipment directly supplied by the United States for Military assistance construction are procured through the military service supply systems. Other U. S. costs for this construction are met initially by the military assistance program and are cited in paragraph 14 below.

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8. Other.—A variety of special purpose equipment, petroleus, medical, and other supplies, and repair and rehabilitation of use equipment not covered above are provided through orders placed with the U.S. Jervices.

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11. Training. -- Increased training programs in free-world countries are required to insure effective use of the new weapons and equipment supplied through the military assistance program, teach basic skills to forces of less-developed nations, and create favorable attitudes toward the United States and its policies.

12. Administration. -- The administrative expenses of the program incurred by U. 5. Military assistance advisory groups, the unified commands overseas, and the departments are included.

14. Contributions to construction of facilities in other countries.—Included are (a) construction of military and logistical facilities under the jointly financed NATO infrastructure program, and (b) contract costs, architect-engineering services and related overhead items for military assistance construction.

One significant public works project is funded not under construction, but appears as part of the cost of supporting international headquarters and agencies; the Central Durope Operating Agency (CDDA) handles the integrated Central Durope Pipeline System.

Budget of the U. S. Government, 1963-Appendix, pp. 325-326. Italies in the original.

Military Assistance Facts, p. 34: "The Central Aurope Pipeline System is an integrated system of pipelines in five countries—Germany, Belgium, Netherlands, France and Luxembourg. Canada, U. and UM are users of the system in conjunction with the five host countries. The system is being constructed with NATO Infrastructure funds. The eight user countries are responsible financially and technically for its operation and maintenance, and the cost of necessary capital improvement. U. S. share under current cost is 39.0%." Detailed funding for FY 1963 is classified, but interpolation from FY 1962 indicates a cost of approximately \$1,116,000.

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8. Other .-- A variety of special purpose equipment, petroleum, medical, and other supplies, and repair and rehabilitation of used equipment not covered above are provided through orders placed with the U.S. Services.

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tical facilities under the jointly financed MATO infrastructure program, and (b) contract costs, architect-engineering services and related overhead items for military assistance construction.

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Budget of the U. S. Government, 1963-Appendix, pp. 325-326. Italics in the original.

Military Assistance Facts, p. 3h: "The Central Durope Pipeline System is an integrated system of pipelines in five countries--Germany, Belgium, Notherlands, France and Luxembourg. Canada, U5 and UK are users of the system in conjunction with the five host countries. The system is being constructed with NATO Infrastructure funds. The eight user countries are responsible financially and technically for its operation and maintenance, and the cost of necessary capital improvement. U. 5. share under current cost is 59.0%." Detailed funding for FY 1963 is classified, but interpolation from FY 1962 indicates a cost of approximately \$1,116,000.

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The social value of projects which can be readily provided by Military Assistance construction funds was recognized by Representative Flood of the House Appropriations Committee, and suggested to Secretary McNamara in the course of his testimony before the Department of Defense Appropriations Subcommittee:

Mr. FLOOD. . . . I spent 5 weeks in Honduras, Guatewala, Nicaragua, and Costa Rica. I spent nearly all my time there with our military people. One crying need down there, which our people think they should have, and most of their best people think they should have, is the establishment . . . of so-called combat engineer units that can be utilized for public works programs—highway construction and similar things. This is a crying need and a vital need and a most desirable thing.

I would take for granted, if it were true of the Central American countries, it would be equally, if not more so, true of certain others. I would hope that insofar as the military aid program is concerned, great attention be given to the development and increasing of this kind of operation. Its horizons are unlimited.

Although Secretary McNamara's response was rather noncommittal at the time (the exchange took place February 1, 1962), a subsequent news story indicates that the Department of Defense has embarked on a major public works assistance program in under-developed friendly countries, under the title of "Civic Action." The news release states that "a team of U. S. Army experts and a \$1.5 million aid grant will help the Ecuador Army and £0,000 civilian volunteer workers build roads, schools, irrigation canals and other public works. . . ." It goes on to note: "The Pentagon . . contends that in many countries the Army is the only organization capable of handling many local public works, communications,

¹⁰ House Appropriations Hearings, Part 2, p. 208.

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transportation, and agriculture and school improvement projects"; and concludes: "Under the master plan, U. S. Army survey teams are sent in to determine what projects the host army could handle and then help the carry out the jobs." 11

Military Assistance Summary

The philosophy of foreign aid can be argued at length, and is, annually, in Congressional debate. While much of the rationale is geared to national security, it seems just as important for the welfare of the United States to develop friendly markets and sources of supply for raw materials in politically stable nations abroad—to say nothing of the philanthropic responsibility, real or imagined, of the rishest nation in the world. It seems quite likely that Military Assistance as such would be largely obviated by disarra ent, but many of the assistance functions presently provided under the sponsorship of the Department of Defense would appear elsewhere in the economy.

Facets of the Military Assistance program of lasting social value are summarized by cost in Table XVII. Out of the total New Obligational Authority of \$1,500,000,000 requested, just slightly more than a third is devoted to social overhead.

¹¹ John G. Norris, "Pentagon 'Civic Action' Holds Military Hopes,"
The Washin L. Fort, June 18, 1962. See also 'U. S. Army Aid Plan to
Start in Ecuador," news item in The Washington Post, June 12, 1962.

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TABLE XVII

COST TO THE U. S. ECONOMY OF SOCIAL SERVICES BUDGETED AS MILITARY ASSISTANCE BY THE DEPARTMENT OF DEFENSE*

Title	Amount
Electronic Equipment	\$ 97,976,00
Military Public Works	11,549,000
Other	118,006,000
Training	120, 7 93,000
Administration	25,000,000
Construction	129,718,000
CEOA	1,116,000
TOTAL	\$504,250,000

^{*}Data from The Budget of the U. 5. Government, 1963-Appendix, p. 32h; Central surope Operating Agency data from hilliary Assistance Facts, p. 3h.

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III. CIVIL FUNCTIONS

Two major activities which formally bear the title of "Civil" are nevertheless responsibilities of the Department of Defense: one is the Civil Defense program, and the other is a group of six miscellaneous activities which are funded together under the budget title "Department of Defense-Civil."

Civil Defense

Included in the Department of Defense budget is an appropriation request for \$695,000,000 to finance the program of civil defense which has lately become a Defense responsibility. The bulk of the funds is requested for incentives to non-profit institutions—schools, hospitals, and welfare institutions—to encourage and assist in the building of facilities which could serve as fallout protection in the event of a nuclear attack. The total program consists of the following: 12

Shelter incentives	\$460,000,000
Shelter in existing Federal buildings	35,000,000
Shelter survey, marking, and stockage	56,000,000
Research and Development	17,755,000
Warning and detection	46,160,000
Emergency operations	33,485,000
Financial assistance to states	32,000,000
nanagament	14,600,000

Public opinion concerning the need for fallout shelters has apparently subsided sufficiently for the Congress to ignore the portion of the Civil Defense request which seeks shelter incentives in the

¹²Budget of the U. 5. Government, 1963-Appendix, pp. 291-29h. For Secretary McNamara's statement on Civil Defense, see House Appropriations Hearings, Part 2, pp. 135-149.

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amount of \$1,60 million. The House Armed Services Committee has not even scheduled authorization hearings on that portion of the bill. When questioned at his press conference on July 5, 1962, concerning this lack of action on civil defense, the President insisted that the administration has not lost interest in the proposal; however, no further action on that portion of the appropriation request has been forthcoming.

Expenses for Civil Defense are almost entirely military in nature. Without the threat of nuclear war, there would be no such thing as Civil Defense, hence disarmament would obviate its cost. One minor aspect of the program of continuing social value, however, is the warning and detection system: "Funds are requested in 1965 to commence nationwide installation of this system, utilizing the existing network of commence cial power lines. The system will provide a means for natural disaster warning as well as warning of enemy attack." 13

Department of Des me--Civil

The divil functions of the Department of Defense are considered separately in the budget because of their unique nature, but account for more than a billion dollars in Defense funds: \$1,065,862,000. They consist of the following: 14

Cemeterial Expenses
Corps of Engineers--Civil
United State: Soldiers' Home
Nyulyu Islanic, Army
The Panala Canal
Wildlife Conservation, etc.

\$10,276,000 1,021,965,000 (trust fund) 7,900,000 25,694,000 27,000

¹³Budget of the U. S. Government, 1963--Appendix, p. 291.

¹¹ Budget of the U. J. Government, 1963, pp. 175-179.

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The major single activity carried out under this appropriation is the program of construction and flood control carried out by the Army Corps of Engineers:

The 1963 program provides for a continued high level of preconstruction planning activities and for construction now underway of 68 navigation projects, 7 beach erosion control projects, 96 flood control projects, 1 multiple-purpose projects, and 26 navigation rehabilitation projects. 15

The entire appropriation for Department of Defense-Divil is an obligation to social overhead. Even though the activities are presently carried out by the Army, all are requirements which would continue unaffected by disarmament.

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¹⁵ Ibid., p. 176. The Budget Appendix notes the individual costs of projects at more than 700 individual locations throughout the U.S., pp. 336-352.

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CHAPTER VII

SUL APY AND CONCLUSIONS

The budget of the Department of Defense for fiscal year 1963 has been analyzed in detail in an effort to determine its proper role in economic considerations of disarmament. Defense costs have been divided between the requirements of two arbitrarily defined and mutually exclusive categories: (1) military power, and (2) social overhead. Military power has been defined as all Department of Defense goods and services which would be obviated by total disarmament; social overhead consists of those goods and services presently provided by the Department of Defense which would continue to be required under conditions of total disarmament.

Table NVIII is a statistical summary of the costs of all military and social services to be performed by the Department of Defense in fiscal year 1963, by functional category within the budget. In general, the analysis indicates that the cost of military power consists largely of the price of goods, customarily referred to in the Defense Department parlance as "hardware": the ships, aircraft, tanks, guns, projectiles, missiles, and incredibly expensive weapons systems of modern warfare. Nost of the military expenses appear under the category of Procurement, under Military Construction in the price of buildings and facilities, and in the cost of military supplies and equipments for Operation and maintenance and Military Assistance.

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On the other hand, the cost of social overhead consists largely of the price of services, which have been categorized for purposes of the analysis as medical Services, Welfare Services, Civic Mervices, and Technical Services. These consist of such routine requirements as feeding, clothing, and housing military personnel; medical and dental care; and such civic requirements as law enforcement, firefighting, storekeeping, transportation, and utilities. Other personnel benefits include education and training, religious facilities, recreational facilities, and a host of miscellaneous welfare activities. In addition, significant services to the nation and to the world are provided in scientific enceavors. The bulk of social overhead expenses appears as compensation of Military Personnel, plus significant costs for technical services in Research and Development and for other services in Operation and Maintenance.

plex, both nationally and internationally. It is also extremely important for the welfare of mankind. Every aspect—social, political, and economic—of a problem of this importance and magnitude in the international milieu is worthy of the keenest scrutiny, but meaningful conclusions can only be drawn on the basis of accurate information. The problem of achieving disarmament is difficult enough without the added obfuscation of well-intended but misleading generalizations. Rather than the total figure of fifty-two billion dollars (or "ten percent of the gross national product") com only cite, the actual cost to the Department of Defense of all the accounterments of U. S. military power

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TABLE XVIII

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COMPARABLE COSTS TO THE U. S. ECONOMY OF MILITARY POWER AND SOCIAL OVERHEAD PROVIDED BY THE DEPARTMENT OF DEFENSE

Functional Category	Total Budgeted	Social Overhead	ilitary Power
Military Personnel	\$13,230,200,000	\$10,255,578,000	\$ 2,974,622,000
Operation & Maintenance	11,608,800,000	4,795,621,000	6,813,179,000
Procurement	16,445,000,000	2,175,268,000	14,269,732,000
Research & Development	6,843,000,000	6,813,000,000	
Military Construction	1,318,000,000	135,355,000	882,645,000
Wilitary Assistance	1,500,000,000	504,258,000	995,742,000
Civil Defense	695,000,000	16,160,000	61,8,81,0,000
DODCivil	1,065,862,000	1,065,862,000	
Total DOD Buuget	\$52,705,862,000		or grader daggraphic der riggerell met gegres og gjerge verson
Total Dudgeted for Soc	ial Overhead	\$26,121,192,000	
Total Resultant Cost o	f Maintaining Mil	itary Power	\$26,584,760,333

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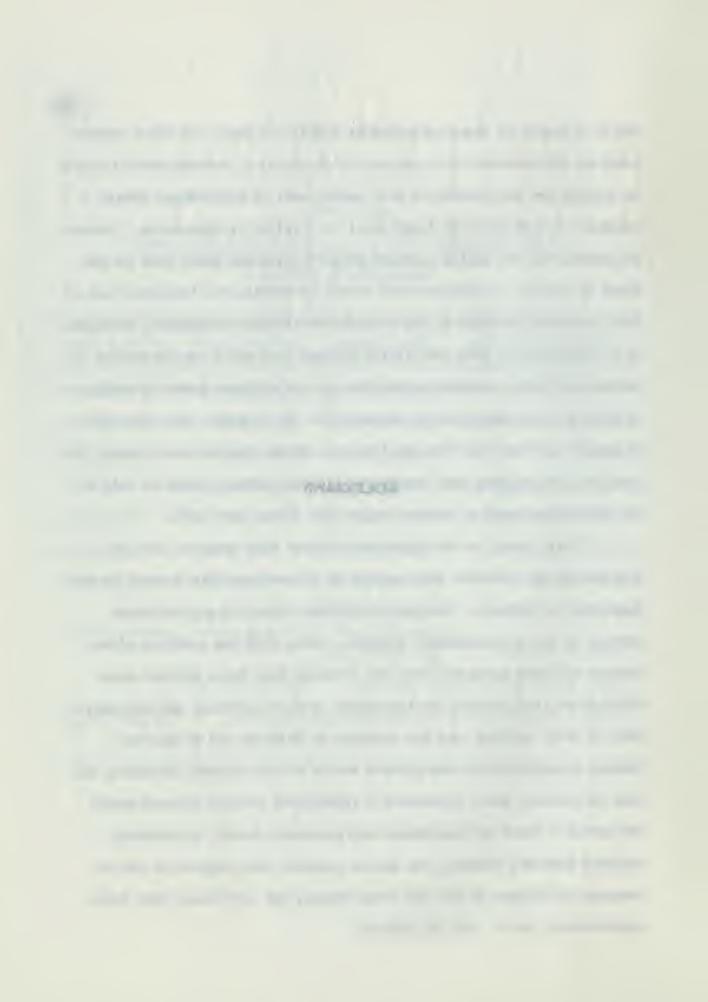
can be computed at about twenty-eight billion dollars. At first consideration, this appears to be the sum which the U. S. economy would be able to salvage for application to more humane uses if disarmament should relieve the economy of the requirement for military preparedness. However, in considering the social services which the economy would have to continue to provide, a civilian cost factor indicating the increased cost of some goods and services on the civilian market must be applied, resulting in a difference of some two billion dollars with which the Department of Defense partially compensates for the cost of military power by savings in providing necessary social overhead for the economy. When the costs of social services with the civilian cost factor applied are totaled, the resulting sum is more than twenty-six billion dollars, close to half of the total Department of Defense budget for fiscal year 1963.

This, then, is the approximate figure with which to deal in considering the economic implications of disarmament with respect to the Department of Defense. Twenty-six billion dollars is a significant portion of the gross national product. Along with the problems of absorbing military personnel into the civilian work force without undue dislocation, the effects of disarmament on U. S. industry and the economies of other nations, and the problems of shifting all or part of defense expenditures to the private sector of the economy, absorbing the cost of military power represents a significant problem in considering the possible roads to disarmament and permanent peace. In devising workable schemes, however, the sum to consider with respect to the Department of Defense is not the total budget, but for fiscal year 1963, approximately half: \$26,564,760,000.

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APPLNDIXES

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AIRMAN CLASSIFICATION STRUCTURE, U.S. AIR FORCE
OFFICER CLASSIFICATION STRUCTURE, U.S. AIR FORCE

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ARMED FORCES PERSONNEL CLASSIFIED IN OCCUPATIONAL SPECIALTIES REQUIRED BY SOCIAL OVER HEAD

Services	AR-Y ¹	NAVY2	U34C ³	USAFL
Medical - Officers Enlisted	15,506 40,755	9,041	(-17)	10,636 24,538
Welfare - ficers Enlisted	3,095 165,645	1,800	399 18,256	5,896
Civic - Officers Enlisted	33,353 177,543	8,958 23,900	3,165 40,176	13,060
Technical - Officers Enlisted	1,930	2,621	64 1,165	8,01ls 5,163
Miscellaneous - Enlisted	63,187	93,154	22,265	12,831
Social Overhead Totals	51,952 455,058	22,420	3,628 81,862	37,606 295,128
Total in Armed Services	116,650 969,367	74,059 592,301	16,255 177,611	120,057 725,9L7
Percentage: Officers Enlisted	44.2% 14.2%	30.6%	22.3%	31.3 40.7

Data from U.S. Department of the Army, Office of the Deputy Chief of Staff for Personnel, Strength of the Army (U), DCsPER-h6 (Washington, 31 March 1962), pp. 17-18. (Document is classified; data extracted is unclassified.) For detailed analysis of Army classifications, see Tab 1.

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APPENDIX B, TAB 1

APLY OCCUPATIONAL SPECIALTIES REQUIRED BY SOCIAL OVERHEAD

Officers		Number	Category
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Chaplains		1,371	101
Professors, U. J. ilitar	y Academy	365	. 8
Corps of In inser	ADDRESS OF TAXABLE PARTY.	8,500	C
dilitary Police		1,935	C
Provost Marshal General		465	C
Finance Corps		1,335	W
Judge Advocate General Con	rns	1,219	C
Redical Corps:		-,/	
Dental		2,148	
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		1,610	- 10
Redical Service		4,326	1.
Veterinarians		452	- 4
tray Nurse Corps		3,519	a
.euical pecialist Corps		151	5 £
Quartermaster Corps		5,630	C
Signal Corps		8,676	C
Transportation Corps	District Interns	6,908	C
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^{*}M: Medical services; W: Welfare; C: Civic; T: Technical; misc: Miscellaneous.

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NAVY OCCUPATIONAL SPECIALTIES REQUIRED BY SOCIAL OVERHEAD

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Officers	Lumber	Category
Medical Corps	3,522	7
Dental Corps	1,752	P.
Medical Service Corps	1,207	14
Nurse Corps	2,099	A*&
Murse Corps Candidates	115	-7
Medical Officers in Training	185	M
Supply Corps	5,125	C
Chaplain Corps	919	M
Civil Engineer Corps	1,577	C
Engineering Duty Officers	1,678	T
Special Duty Officers	1,010	7
Communications	319	C
Law	1166	C
Photography	10	T
Public Information	75	M
	_	
Hydrographer	11	T
imited Duty Officers	25.2	
Administration	350	C
Bandmasters	2	
Engineering	700	ľ
Photography	66	Ţ
Aerology	57	T
Supply Corps	491	C
Civil Engineer	99	C
Warrant Officers	0	
Ships Clerks	178	C
Bandmasters	15	M
Supply Corps	282	C
Civil Engineer Corps	71	C
Medical Service Corps	161	PI
Aerology	20	T
Photography	20	T
Research and Development	59	T
Professors		
MIT	2	W
USNA	360	W
NROTC	314	W
P.G. School, Monterrey	112	W
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TOTAL	22,420	

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Enlisted Specialists	Number	Category
Hospital Corps en, Rated	14,212	M
Hospitalmen	11,561	M
Dental Technicians, Rated	1,962	M
Dentalmen	1,271	M
Instrumentman	405	T
Opticalman Opticalman	382	T
Stewards, Rated	6,687	W
Tablemen	7,992	W
Administrative and Clerical	54,009	f3
Telemen Storekeepers	27	
Yeomen Disbursing Clerks		
Personnelmen Commissarymen		
Machine Acct Ships Servicemen		
Journalists Postal Clerks		
Lithographer	1.70	T
Draftsmen	622	T
Musicians	1,705	W
Construction (CEC), Rated	6,641	C
Strikers	1,143	C
Constructionmen	2,786	C
Utilities Construction electrician		
Steelworker Construction Mechanic		
Builder Equipment Operator		
Aerographer	2,380	T
Aviation Storekeepers	3,762	C
Photographers	2,662	C
Messmen (interpolated)	19,743	W
Masters-at-Arms (interpolated)	6,906	C
Patients and Prisoners (interpolated)	8,885	Hiso
Seamen* 124,397		
Firemen* 38,578		
Airmen* 45,097		
208,072 x 40.5%	84,269	Plisc
TOTAL	240,455	

^{*}Most of the Navy's apprentices and trainces are not specifically designated as "strikers" in the field in which they work, but bear instead the general title "seaman," "fire an," or "airman," depending u on which branch of the navy they are assigned. In order to determine a reasonable approximation of the number involved in social overhead, the total number has been multiplied by the percentage of rated men involved in social overhead. This accounts for the comparatively large number of naval enlisted personnel listed as "discellaneous" and the smaller numbers for specific occupational specialties.

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MARINE CURPS OCCUPATIONAL SPECIALTIES REQUIRED BY SUCIAL OVER-EAD

Officers	Number	Category
Personnel and Administration	573	C
Engineer and Thore Party	592	C
Mapping Officer	7	T
Printing and Reproduction	9	r
Telephone aintenance	1L	Ċ
Supply Administration and Operations	1,124	C
fransportation	35	C
Supply Services	25	5
Food Services	59	M
Disbursing	201,	W
Motor Transport	770	C
Data Processing	35	T
Marine Corps Exchange	50	3
Informational Services	25	W
Photography	12	C
Training and Training Aids	5	di
Band	16	W
Corrections	11	Ü
Aerology	13	T
Education	90	lei
Provost Larshal	289	C
TUTAL	3,528	
Delinked Sevelalinke	ALC: NO. OF STREET	Onto a name
Enlisted Specialists	huwer	Category
	nor - throughout annual Advantagement	
Personnel and Ad inistration	10,606	category
Personnel and Ad inistration Utilities	10,606	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party	10,606 1,888 6,296	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Drafting and Surveying	10,606 1,688 6,296 539	000
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Drafting and Surveying Lithography	10,606 1,888 6,296 539 299	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance	10,606 1,688 6,296 539 299 666	000
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations	10,606 1,488 6,296 539 299 666	000
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation	10,606 1,888 6,296 539 299 666 11,490 788	10001000
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Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Food Services	10,606 1,888 6,296 539 299 666 11,490 788	10001000
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Tood Services Disbursing	10,606 1,888 6,296 539 299 666 11,490 788 6h1	100010000
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Tood Services Disbursing	10,606 1,888 6,296 539 299 666 11,490 788 611 4,388 1,371	10001000
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Relephone Maintenance Supply Administration and Operations Fransportation Supply Services Disbursing Motor Transport	10,606 1,888 6,296 539 299 666 11,490 788 6h1	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Food Services Disbursing Motor Transport Steward	10,606 1,888 6,296 539 299 666 11,490 788 611 4,368 1,071 12,907	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Tood Services Disbursing Motor Transport Steward Data Processing	10,606 1,888 6,296 539 299 666 11,490 783 611 4,388 1,771 12,907 891 866	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Food Services Disbursing Motor Transport Steward Data Processing Marine Corps Exchange	10,606 1,888 6,296 539 299 666 11,490 788 6h1 4,388 1,071 12,907 89h 866 785	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Drafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Food Services Disbursing Motor Transport Steward Data Processing Marine Corps Exchange Photography	10,606 1,888 6,296 539 299 666 11,490 788 6h1 4,388 1,771 12,907 89h 866 785 620	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Drafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Food Services Disbursing Motor Transport Steward Data Processing Marine Corps Exchange Photography Band	10,606 1,888 6,296 539 299 666 11,490 788 661 4,388 1,071 12,907 894 866 785 620 1,297	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Orafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Food Services Disbursing Motor Transport Steward Data Processing Marine Corps Exchange Photography Band Security Forces	10,606 1,888 6,296 539 299 666 11,490 788 611 4,368 1,071 12,907 894 866 785 620 1,297 1,566	
Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party Drafting and Surveying Lithography Telephone Maintenance Supply Administration and Operations Transportation Supply Services Disbursing Motor Transport Steward Data Processing Marine Corps Exchange Photography Band Security Forces Patients and Prisoners	10,606 1,888 6,296 539 299 666 11,490 788 641 4,368 1,071 12,907 894 866 785 620 1,297 1,566 760	TOOCTOGOOW WOWTOOW Cisc
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Personnel and Ad inistration Utilities Construction, Equipment, and Shore Party	10,606 1,888 6,296 539 299 666 11,490 788 641 4,368 1,071 12,907 894 866 785 620 1,297 1,566 760	TOOCTOGOOW WOWTOOW Ofise

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APPENDIX B, TAB L

AIR FORCE OCCUPATIONAL SPECIALTIES REQUIRED BY SOCIAL GVERHEAD

Officers		Number	Category
Weather		2,103	T
kesearch		814	T 1
Nuclear	Chemistry	11,175	
hathematics	hetallurgy		
Physics			
Research and Devel	opment kanagement	2,056	T
Aerchautical Engin		2,508	T C C
Motor Vehicle Main	tenance	252	C
Civil engineering		2,250	С
Cartography		4	
redical		10,6,6	R
Medical	Nurse		
Dental	Specialist		
Veterinary		4 0 1 0	
Chaplain		1,118	- 4
Legal		1,3114	0
Police		2,01.1	C
Education and Train Research sychology		2,189	T
Information	У	529 661	i W
Financial		1,628	W
Supply		5,562	
Logistics		436	,"
Transportation		1,165	
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	TOTAL.	37,605	
enlisted Spe	cialists	Nusber	Category
Weather Observer		5,163	T
Motor Vahicle main	tenance	10,687	C
Construction		12,128	C
Utilities		0,811	C
Fire Protection		11,257	
Marine Nelper		500	C
Transportation		21,912	C
Food Service		18,901	W
Supply		63,051	C
Accounting and Fin	ance	7,201	19

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Administrative			1,0,00	Į.
Chaplain	Postal			
Stenographic	Lejal			
Printing			1,557	4
Information			1,600	W
Special services			2,71.5	īs'
Physical Conditio	ning Recreation	on		
Zoucation and Train			3,571	
Band			1,711	M
Police			10,831	C
medical			21,2)	W
Dental			5,214	
Trainee			6,519	List
Patients and Prison	ers (interpolated)		6,312	isc
		TUTAL.	295,128	

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	51,8%	TICAL

APPENDIX C

OPERATION AND MAINTENANCE COSTS FOR DOD DEPARTMENT-WIDE ACTIVITIES REQUIRED BY SOCIAL OVERHEAD

Activity		Amount	Page	*	Category	7+
Petroleum and Oil Shale Reserves	\$	3,000,000	320		С	
Proposed Per Diem Legislation	*	20,000,000	275#		W	
Overseas Dependent Schooling		49,561,000	914		W	
Information & Education Service		8,874,000	704		7.7	
Court of Military Appeals		455,000	891		С	
Claims		19,000,000	900		C	
Contingencies		15,000,000	9011		C	
Office of Asst SecDef (Manpower)		1,173,000	615		To	
Office of Director of Defense R &	E	8,435,000	611		T	
Defense Supply Alency	1	177,700,000	743		H	
Non-profit Contracts, DASA		6,115,000	732		W	
Support Activities		1,774,000	617		[k]	
IntraDepartmental Activities:			90.76			
Women in the Services Education		51,000	622		W.	
Special Activities Program		175,000	623		W	
Electronics Resources Program		341,000	623		С	
Coordination of Antarctic Program	EQ.	116,000	624		T	
Management Information Studies		250,000	625		С	
InterDepartmental Activities						
Committee on Equal Employment		175,000	691.		1.7	
Council on Youth Fitness		120,000	694		W	
Federal Radiation Council		8,000	694		T	
Committee on Nutrition		90,000	694		I al	
Assistance to Distressed Areas		85,000	695		W	
Reserves for New Projects		114,000	696		C	
Natl Bd for Promotion of Rifle Pra-	cti	ce 500,000	128		M	
Employees' Compensation Fund		996,300	656		W	
National Occamographic Program		57,100,000	335		T	

^{*}House Appropriations Hearings, Part 3.

^{*}House Appropriations Hearings, Part 2.

⁺W: Welfare; C: Civic; T: Technical.

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APPENDIX D

MILITARY CONSTRUCTION PROJECTS REQUIRED BY SOCIAL OVERHEAD

	NAVY (INCLUDING MARINE CO	MPS)		
Page*	Project		Thousands) Project	Cate- gory*
35	Bachelor Officers' Quarters (BOQ), NSY Boston	\$ 3.2	\$ 80	W
	Water Facilities, NSY Bremerton	2.0	140	С
	Personnel Bldg, NavFac Nantucket Utilities	25.4 8.8	570 197	WC
	Cold Storage, Sub Base, New London Barracks BOQ and Mess	21.3 64.0 22.0	469 1, 6 05 544	W
	Utilities, NSY Norfolk	107.6	1,852	C
36	BOQ with mess, Portsmouth NaY	21.0	526	W
	Radiological Lab; Neutron Radiation Facility	185.7	2,534	T
1.8	Extension of Spoil Area, Charleston NSY	18.5	425	C
92	Admin Bldg & Barracks, NavSta Charleston Barracks BOQ with Mess Chief Petty Officer (CPO) Less	13.5 9.4 74.8 11.2	400 469 907 200	W Vii W Vii
101	Utilities	12.0	307	С
101	Messhall, NavSta Key West	32.5	563	U
101	Messhall, Nav5ta Mayport Barracks	13.6 29.7	188 577	W
113	Technical Training Bldg, NAS Memphis	114.0	1,975	W
115	Chapel, NAAS Meriden, Miss.	16.0	274	W
123	BOQ, NavSta Adak Bachelor Civilian Quarters	37.8 17.3	1,639 360	W

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136	NAJ Cecil BOQ, NAS Key West	115.5	2,516	W
139	Aerological Bldg, Navsta Kodiak	5.1	91	T
141	Chapel, NAS Lelloore	25.5	545	W
	Gyn	22.0	1.70	ld
156	Systems Training Bldg, NAS North Island	38.8	797	V
163	BOQ, NAS Whidbey Islan	50.3	1,20L 35U	u
	Chapel Officers' Ness	15.0	344	la i
175	Radio Facility, MCAAS Yuma	12.1	50	C
	Water System	23.3	556	C
180	Gym, NavAmDepot, Concord, Calif.	13.4	169	W
183	Parracks, Propellant Plant	15.6	199	W
189	Computation & Analysis Bldg, Dahleren	78.3	2,042	T
191	Barracks & Mess, MADC, Johnsville	21.0	505	W
193	Alterations, Air Materiel Center, Phila.	37.0	1.82	C
196	Range Safety Facility, Pt Arguello	6h.3		C
	Auto Maintenance Facility, Pt Mugu missiles & Astronautics Facility, Pt Mugu	35.1	350 1,846	C
206	Acquisition of land, NAS Guam	4.0	133	C
210	Aerological Bldg, NavSta, Argentia	4.0	71	T
212	Barracks,CAF Okinawa	27.8	339	IJ
	BOQ and mess	41.5	886	W
	wimming Pool	9.4	110	W
215	Barracks, MCAF, Iwakuni	19.8	679	2
222	Colm Storage, NavSta Rota, spain	2.0	103	4
	Hospital	3.5	260	A a
	Barracks			
		10.1,	1,058	84
	messhall	2.0	64	¥.7
226	Sanitation Facilities, Okinawa	11.6	14:	0
228	Rec. Bldg & Swimming Pool, NAF			
	Sigonella, Sicily	17.0	374	to

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234	Supply Actin Space, Phila.	12.5	250	C
21.1	Barracks, ACd, Camp Pendleton Fire Station Sewage Facilities Roads and Parking	J79.L	3,400 72 27 313	-000
252	Training Blog, US-C Camp Butler, Okinawa BOQ Officers' Less and Recreation Blog Post Exchange Utilities Road Dispatch and Filling Station Auto Maintenance Shops Engineer Field Maintenance Shop	76.5 198.9	51 974 282 165 210 122 74 456 261	# W 000000
25L	Barracks Messhali BOQ Utilities	10	1,158 1.85 310 1.35	8 W
255	Officers' Ness Guardhouse	30.0	62 8 7	Y C
256	Chapel Utilities		208 3 7	C
257	Service Schools Facilities: USNA, CO., Amphib Base, ASW, FBM, Weapons Plant 1	,318.8	2>,923	1
21.	addical Facilities	665.3	13,329	- h
315	Transmitting Facility, Eritrea	122.4	L, 316	T
522	Research Facilities	21.1.3	5,047	r
330	Breakwater, Norfolk, Bulocks	10.0	572	С
رۇد	minor New Construction (extracted)	100	3,121	С
المؤد	Restoration of damaged Facilities Access Roads		1,300	C
338	Power System, Guam		5,688	С

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342	Training Blog, NA; Dallas Messhall BOQ	7.0 5.9 6.3	122 110 110	W
	Barracks, NAS Glenview Storm Sewer & Drainage System	17.7	297 365	W
	Barracks, NA; Grosse Ile Messhall	8.6	142 36	₩
	Training Blog, NA: Los Alamitos	5.8	76	bs
	Training Blog, NAS Ainneapolis Barracks	7.8 23.0	100 296	bs bd
	Fire Station, NAs New York Heating Plant Roads and Sidewalks	7.9 5.0 0.9	158 100 78	000
	messhall, NAS South Weywouth	18.0	17 1	S)
343	Surface Training Facilities	16h.L	3,457	be
	Ground Training Facilities	43.0	7 85	les
348	Minor Construction		500	С
	ARTY			
405	GP Warehouse, Ft. Devens BOQ BOQ, Female	15.0 2.2 1.5	76 6 L81 328	C W
1.57	Ned Barracks, Ft Dix Admin & Storage Bldg Barracks & Mess Ness Bldgs	4.0 1.0 8.0 8.0	797 135 5,713	i i
	Admin & Storage Bldgs Hdqts & Classroom Bl.gs Heating Plant Steam Dist Line Chapel	6.0 h.0 1.0 1.0	1,303 829 470 450 561 837	in C
416	Chapel, Carliste Barracks	7.9	490	jų.
1.19	Motor Repair Facilities (eng), Ft Knox Hospital Air Conc. G Service Club	3.3	821 1,062 677	C 11 W

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422	BOQ Ft Meade Dental Clinic	1.7	383 146	lui a l
1124	Barracks, BOQ, & DISPEL ARY, Ft Ritchie	14.4	2,3,7	W
427	Refrig Warehouse Fac, Ft Denning EM Barracks medical EM Bervice Club Sewage Treatment Plant Oper & Classroom Bidg Camp Supply Bidg Camp Storehouse Dispensary Latrines BOQ Recreation Bidg Elec Dist, Roads & Parking Storm Drainage Facilities	11.5 25.0 11.3 26.0 1.9 .5 .6 .1 1.1 1.2 1.0	339 611 624 1,572 Lh 21 25 62 51 63 40 514	
L35	Hugts & Academic Bldg, Ft Bragg	10.2	1,525	W
1-39	Refrig Warehouse & Meat Proc Fac, Ft Campbell Gas Dist & Conversion Storm Drainage Led Barracks, Ft McClellan	15.6 0.9 81:.9 6.0	7L2 486 2,300 200 170	C 0 4 %
116	Academic Bldg, Ft Mucker Lab Classroom Bldg BOQ Hagtrs & Classroom	13.6 7.9 2.9 12.L	462 158 631 271	W W
451	R&D Missile Inst Lab, Ft Bliss Eng Field Maint Shop Barracks EM Mess BOQs	8.6 3.5 4.5 7.4 3.2	269 108 212 324 151	T
455	Army Health Fac, Ft Hood Avenue	8.3	7,38L 403	i i
158	blec Switching Facs, Ft Houston	5.9	1.25	C
461	Med Barracks, Ft 1111 LA Barracks Mess Bldg Acmin & Storage Bldg BOOs	1.L 26.0 9.5 5.9 10.0	521 1,460 353 213 2,536	W C

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465	Barracks to BOQs, Ft B Harrison	36.0	1,260	W
467	Power supply, Ft Leavenworth	1.6	103	C
472	Dispensary, Ft Wood		1314	Ł A
473	Barracks Mess Blogs	48.3	3,454 811	ki N
	Admin & Storage Blugs Heating Plant	10.3	556 405	Ĉ
	BOQs Post exchange	9.1 3.3	1,800	W C
	Chapel Commissary Store	7.8 29.6	318 630	C
479	Mess Bldgs, Hunter-Liggett Mil Res	3.2	159	W
481	Post Exchange & Cafeteria, Ft Irwin Elec Dist Lines	L.3 6.3	405	C
181	Fire Station, Ft Lewis	2.1	112	0
407	Dormitory & Mess, Monterey	45.2	979	U
L93	Dental Clinic, Ft Ord Sewage Disp Facs Water Supply	25.7	1,345 84J	C
1:95	Elect Dist, Army Chem Center	13.8	681	С
496	Add to Army Hosp, Dugway Prov Grad Elec Dist Sys Sewage Freatment	13.5 5.1 6.1	4.55 4.09 123	C
	NCO Open ress		123	W
501	Engineer School, Ft Eulvoir	51.7	1,954	V ii
50L	Dynamometer Lab, Aberdeen Prov Grn.	7.6	316	I
506	Nuclear Effects Lab, White Senos Army Health Fac	2.6 2.5	1,456 1,878	T
511	Fire Station, Ft Let Heating Plant Qn Haqtrs & Storeroom Blog	2.2 1.2 1.4	10) 90 197	000
514	Locomotive Shelter & Repair, New Cumberland	1.5	70	С

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52	23 Command Control Info Center R&D,	2 1	1 50	<i>m</i>
	Ft Huachuca	1 1	452	T
	25 BOQ, Ft Monmouth	4.5	920	W
26	P&D Lab	229.2	7,171	T
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52	27 EN Barracks & Mess, West Coast	2.0	203	W
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52	29 EM Barracks Wm Beaumont Genl Hosp	2.5	202	W
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53	Brooks Army Med Center		834	M
۲.	Bly Fitzsimons Genl Hosp	7.9	1,177	M
22	Blu Fitzsimons Genl Hosp	1.7	1116	2.5
5	B6 Dental Clinic, Ft Eustis	1.0	351	М
20 00	B00	1.7	302	6/
	Shop & Classrooms, School	22.7	624	W
53	39 USMA, West Point	11.9	657	W
41				
51	44 EM Barracks, Eritrea	.5	95	W
	Water Supply System	4.0	88	C
	Central Power Plant	2.0	3,039	C
ef e	50 BOQ, USASA Loc 12, Japan	1.4	1117	W
22	buy, USASA LUC 12, Japan	£ • L1	erit 8	99
50	52 EM Barracks, England		135	W
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55	58 EM Barracks, Loc 276		71	W
	Flack Welling Tollow Tollows		202	
57	74 Sewage Treatment, Nancy Depot	5.1	108	C
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50	33 Sewage Disposal, Verdun Post	11.9	248	C
50	22 Bananska Bunanan Tananaharia	15.3		
27	Barracks, European Tropospheric			W
	Scatter Sys	25.2	733	₹U
50	Disp & Barracks, Ft Allen	4.0	171	W
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60	D2 BOQs and Barracks, ADC	3.8	140	W
	Latrine Facs	1.5	40	
		15-7	154	C
61	16 Minor Construction (extracted &			
	interpolated)	11110	2,853	C
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61	11 Access Roads		1,500	C

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75	Officers Quarters Barter 1s.	17.4	291	W
45	Auto Maint Shop, Bear Creek	6.2	116	C
Ц 9	Recreation Bldg, Cape Lisburne AFS	18.3	366	lý.
		200 1	2 2 2	
51	Recreation Bldg, Cape Romansof AF5	15.6	311	W
59	Recreation Bldg, Tin City AFS	18.3	366	W
61	Open Mess Officers, Eielson AFB	2.5	354	W
65	Roads, NCO housing area, Elmendorf AFB	13.9	278	C
69	Medical Facility, Richards Gebaur AFB	12.0	158	12
75	Durant addition Paleth for Almont	65.0	1 566	C
75	Runway addition, Duluth Aun Airport Field Training Facility	18	1,566	W
	warehouse, base supplies & Equipt	10	150	C
	Dispensary & Dental Clinic	25	465	M
	Land for Runway extension		34	C
79	Training Facility, Grand Forks, AFB	16.0	330	W
17	Civ ang maint shop	9.3	147	C
	Warehouse, base Sup & Equipt	15.1	200	C
	Hot Water Mains	37.7	300	C
33	Field Training Fac, Sawyer AFB	11.0	2 58	W
	Dormitory, Airmen	30.0	800	W
	Commissary Store	8.0	151	Ĉ
de	Mining story protein and		0.1599	- 1
67	Training Fac, Kinchelpe AFB	11.0	260	84
	Civ Eng Maint Shop	9.5	220	C
	Dormitory, Airmen	28.0	388	W
	Exchange Sales Store Open Mess, NCO	12.0	187 300	C
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91	Auto Faint Shop, Kingsley Field	27.3	410	C

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93	Auto maint Shop, Minot AFB	21.2	354	C
	Cold itorage Bldg	4.3	8 3 618	to to
	Dormitory, airmen Officers quarters	43.3	170	W W
	Electric Powerplant	2.2	35	C
	Electric Primary power	2.5	100	C
	Elec Distribution Line, Off housing	2.1	40	C
	Water Storage Tank	25.9	235	C
	Water Pump Station	25.9	110	C
100	Runway extension, Paine Field	55.5	1,620	C
	Auto Maint Shop	24.4	308	C
	Land for Runway Extension		132	C
107	Dispensary, Suffolk Co AFB	29.0	587	M
	Darley Street, College, St.	100	1167	
115	Composite Legical Fac, Hill AFB	134.9	2,136	I-1
	Logistical Fac depot	33.2	392	C
	Chape 1	37.1	331	lei .
121	Damannal Fra Will AF Danas	28.2	262	W
141	Personnel Fac, Hill AF Range Electric Power	13.5	105	C
	Electric Distribution Line	41.6	189	C
	Water System	107.6	899	C
	Roads	107.3	685	C
	110000	2010)	00)	
127	Logistical Fac air conditioning,			
	Fobins AFB	2.9	74	C
133	R&D Labs, Wright-Pat AFB (materials)	73.0	781	T
	(polymer research)	39.6	560	T
	Special Lab analysis	5.0	101,	T
	Lab research environment	19.0	331	T
	Electrogas Dynamics fac	540.0	10,000	T
	Radiolog Health lab	15.0	310	T
	Elec distribution line	5.0	95	C
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137	R&D. Gas Dynamics & Propulsion, Arnold	2 02 500 500	0.160	~
	Engineering Development Center	105.5	2,462	I
139	R&D Facs, Cape Canaveral	144.0	2,194	T
201	nub racs, cape Canaverar	I. Likis • O	2,174	4
11.1	Missile Comm, Coolidge AFB	50.0	1,429	T
	and the state of t	,0.0	2 94427	T
143	Missile Instrumentation, Melbourne			
	Telemetry Sta	58.0	833	T
145	Missile Instrumentation & Comma,			
	Wideawake Field	128.4	3,478	T
21.00	V-1			
147	Biosystems Research Lab, Brooks AFB	90.0	1,559	T

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149	Propulsion & physiological research, Edwards AFB	323.6	3,181	T
151	Science Lab, Sacramento Peak	5.0	45	T
153	Auto Maint Shop, Eglin AFB Spec Research Structures	25.6 18.5	564 282	C
155	Bioastronautics research, Holloman AFB Open Mess, NCO	28.8 26.0	619 324	T
157	R&D Support, Hanscom Field	122.5	2,752	T
163	Base Comm, Patrick AFB Medical Facility Admin missile research engineering Dormitory, airmen Elec Dist Line	21.0 160.0 58.0 10.0 5.0	298 2,865 2,870 200 100 300	C M T W C
	Sewage Treatment & Disposal			
173	Chapel, Carswell Service Club	9.3	154 230	les les
177	Civ Eng Fac, Clinton-Sherman AFB	6.4	96	C
184	Fire Station, Ellsworth AFB	3.3	51	C
196	Air Conditioning, Hdqtrs, McConnell AFB	7.1	90	W
202	Fire Station, Schilling AFB	3.3	32	С
206	Dental Clinic, Westover AFB	23.0	271	M
207	Service Club, Bergstrom AFB Recreation Gym	7.2	93 2 57	W
210	Med Fac, Blytheville AFB	29.0	644	M
212	Dormitory, Airmen, Columbus AFB	5.0	355	W
213	Auto Maint Shop, Dyess AFB	0.8	75	C
217	Training Facs, Glasgow AFB Open Mess, Off	22.8	276 2 7 0	W
218	Med Fac, Harch AFB	252.0	4,327	M
225	Med Fac, Offutt AFB Dormitory, Airmen	242.6	4,216	11

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234	Civ Eng Support, Wurtsmith AFB Base Chapel	23.5	172	C
245	Dining Hall, airmen, Amarillo AFB Officers quarters	6.0	64 72	W W
247	Technical Training, Chanute AFB Chapel Heating Plant Water Supply	60.0 18.0 4.0 10.0	1,068 371 118 114	W C C
249	Dormitory, airmen, Connally AFB Elec Dist Line	4.5	62 129	W C
252	Electronic Training Shop, Keesler AFB Dining Hall, Airmen Open Mess, NCO	13.0 24.0 31.6	247 478 563	lef lef lef
254	Off Training School, Lackland AFB Dental Clinic, Lab, Dental Training Fac Training Hdqtrs Cadet Quarters	64.0 69.6 22.8 70.0	1,287 954 490 1,570	W W
263	Chapel Open Mess Sewage Treatment & Disposal Technical Training Fac, Sheppard AFB Technical Training Fac, modification	18.6 18.0 5.6 70.0 73.0	307 400 80 1,125 1,042	W C W
2 64	Officers Quarters Air University Command, Gunter & Maxwell AFBs	28.0	314 315	W
270	Haqtrs addition, R&D, Andrews AFB	60.0	799	Т
277	Med Fac, Travis AFB	75.6	659	2ª
287	Med Fac, Langley AFB	206.0	3,078	M
294	Warehouse, Nellis AFB Ned Fac Water Well	21.4 98.1 33.3	345 2,230 246	C M C
298	Auto Maint Shop, Pope AFB Off Quarters	11.3 5.7	174 260	C W
302	Dormitory, airmen, Sewart AFB	8.0	365	W
304	Storm Drainage, Capehart Housing, Seym Johnson AFB	4.1	80	С
308	Civ Eng Fac, Adair AFSta	4.7	79	С

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309	Sewage Treatment & Disposal, Ft Fisher	6. 6	2.0	
	AFSta	3.3	32	C
312	Storm Drainage disposal, Houma AF5ta	7.5	11.0	С
314	Off Quarters, Hancock Field	6.5	384	W
316	Open Mess, NCO, Sundance AFSta	4.6	59	W
318	Auto Storage Fac, Topsham AFSta	6.0	55	С
325	Dormitory, airmen, Cape Parry DEW Sta	10.1	169	W
327	Dormitory, airmen, Cartwright AS Multipurpose Recreation Fac	9.6 15.0	160 250	W
329	Dormitory, airmen, Hall Beach DEW Sta	3.0	152	W
331	Dormitory, airmen, Hopedale AS Multipurpose Recreation Fac	9.6	160 250	W
333	Dorm, Airmen, Melville A3	13.5	225	W
335	Laundry, drycleaning Fac, Sondrestrom	40.0	421	С
	Sanitary Sewage Mains addition Water Mains addition	7.2	143 143	C
337	Multipurpose Recreation, StAnthony AS	5.0	250	W
347	Hot water mains, Laon AB	1.5	62	C
358	Supply Maint Fac, Ankara AS Post Exchange & Commissary Utilities	34.7 34.7 15.5	1,000 700 300	CCC
361	Airmen dormitory, Bentwaters RAF Sta Sewage Treatment & Disposal plant Water Storage Road	34.2 10.8 7.5 4.8	560 176 120 81	CCC
366	Pormitory, airmen, RAF Lakenheath	28.0	51h	W
380	Officers quarters, Clark AFB Electric Power Elec Primary Power	11.7 21.3 9.9	280 5 7 0 434	CC
383	Dormitory, airmen, Ie Sima Aux Field	5.0	95	Į6
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391	Dormitory, airmen, Misawa AB Sewage Treatment & Disposal WaterMains	21.5 5.8 13.5	208 103 132	W C C
397	Service Club, Naha AB	6.0	307	W
1,02	Dormitory, airmen, OSAN Ab Off Quarters Elec Dist System Drainage System	24.2 14.0 1.2 5.1	394 236 60 170	W C C
406	Dorm, Airmen, Tachikawa AB Off quarters	42.2	360 450	W
409	Recreation, multipurpose, Tainan AS	9.4	165	W
411	Recreation, multipurpose, Taipei AS Dorm, Airmen	3.9 16.5	165 265	W
418- 437	Minor Construction (extracted & totaled)		7,172	C
441	Non-Missile Access Roads (Minuteman: \$10,500,000)		6,822	С
444	Minor land acquisition (interpolated: 1/3 x 300,000)		100	С
44.8	Space Technology Facs and Launching Sys Living Quarters, Nissile Sites (inter- polated)		49,000	T
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	AIR FORCE RESERVE			
491	Dorm, Airmen, Andrews AFB		54	W
492	Dorm, Airmon, Bates Field		63	W
494	Warehouse, supplies & Equipt, O'Hare Intl Airport		240	С
496	Warehouse, supplies & Equipt, Richards- Gebaur AFB Tech Training		60 170	C W
501	Warehouse, Sup & Equipt, Gen Mitchell Fiel Dorm, Airmen Dining Hall, Airmen	lá	109 95 70	C W W

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DEFENSE AGENCIES

613	Loran Stations, Defense	\$22,000	Т
621	Animal Clinical Research Facilty and Laboratory Building, Defense Atomic Support Agency Air-Condition Dormitory Natural Gas Conversion Air-Condition Barracks and BOQ Water System NCC Open Ness Evaporative Cooking, Barracks	968 36 238 82 60 411 75	T W C W C W
644	Defense Supply Agency	9,207	С

^{*}Construction Hearings, Part 1: "Department of the Army; Department of the Navy."

Ti: Medical; W: Welfare; C: Civic; T: Technical.

[#]Construction Hearings, Part 2: "Department of the Air Force; Defense Agencies; Loran Stations, Defense."

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